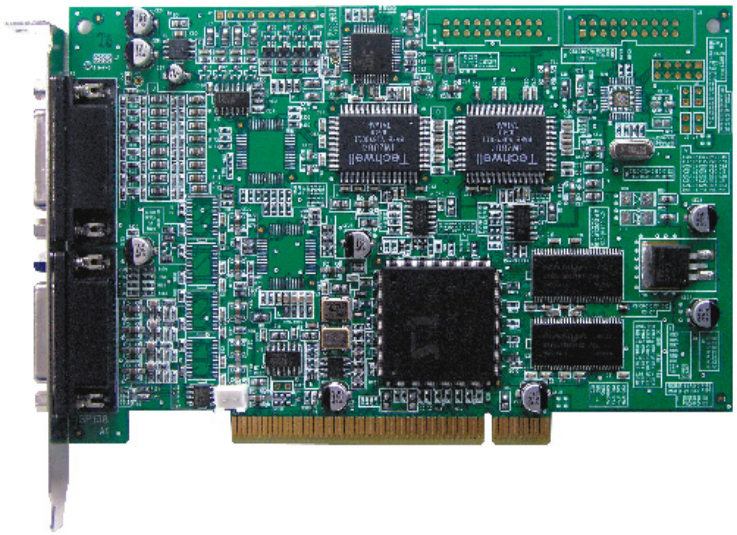
USER'S MANUAL & INSTALLATION GUIDE

ISP-208

Digital 8 Channel Video Surveillance Card



Part I - the capture card

About this manual

Before installing and using this unit, please read this manual carefully.

Be sure to keep it handy for later reference.

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1. PRECAUTIONS

ATTENTION: This exclamation point icon tells the user to take precaution when operating or repairing the product.

WARNING: This lighting icon tells the user of possible danger of electric shock.

Trademarks

Any products, names and trademarks mentioned in this manual are belonged to their registered legal companies.

Special Notice

1. This product is only a helpful tool for surveillance recording, any damage occurred during using is not responsible.
2. Please do not remove any label on this card. This may avoid the warranty of this card.

Warning

This card contains sensitive electric components, which can be easily damaged by static electricity. Following procedures should be done before unpacking and installation.

1. Turn off your computer and unplug power supply.
2. Use a grounded wrist strap before handling computer components.
3. Place components on a grounded antistatic pad or on the bag that came with the components whenever the components are separated from the system.
4. Do not apply power to your system if it has been damaged on the card.

2. NOTES FOR CARD INSTALLATION

✧ **PC Hardware Requirements:**

1. CPU: Intel Pentium 4 1.7GHz or above
   - At least Intel Pentium 4 **2.8GHz** is required if you want to enable any intelligent function. Please refer to the related chapters of intelligent services (Chap. 14-16) for more details.
2. Memory: 512MB at least
3. HDD: 80GB at least
   - 1 or 2 cards installed: ATA100/SATA/SATA2
   - 3 or 4 cards installed: SATA2
4. Display Card: Support Microsoft DirectX 9, 64MB VRAM
   Recommendatory Card for Best Performance: ATI Radeon 9200/9600/9800
   - Not compatible with Intel Q965 Onboard Display
5. Mother Board: Intel 845, 865, 915 chipsets are recommended

✧ **Windows Setup:**

1. Microsoft Windows 2000, Windows XP, or Windows Vista
2. VGA Resolution: 1024x768 pixels
3. HDD Partitioning: At least C and D drives are required.
   Drive C: For system installation. Microsoft Windows occupied about 2.5 to 3GB.
   Drive D: For data storage. It's the space for storing recorded video/audio data.
4. Stop automatic Windows Update, virus scan, and other system utilities are recommended.

3. PRODUCT FEATURES AND SPECIFICATIONS

3.1 Product Features

- Real MPEG-4 video compression with ITU-T G.723 Audio
- Full access control by Accounting/Authorization/Authentication mechanism
- Event notification by on-screen indicator, email, and the remote client
- Rich remote functions, such as live monitoring, search & playback, backup, PTZ control, E-Map, event notification, etc.
- Independent recording parameter adjustment for each channel – resolution, frame rate, and quality
- Support E-Map
- Support Pelco-D and Lilin protocols for PTZ control
- Support WinCE-based PDA or mobile phone for client installation
- Support 1 to 4 cards installed in one system, making an 8/16/24/32-channel DVR system
- Support intelligent video surveillance functions for specific scenarios
- Support central monitoring system (CMS)

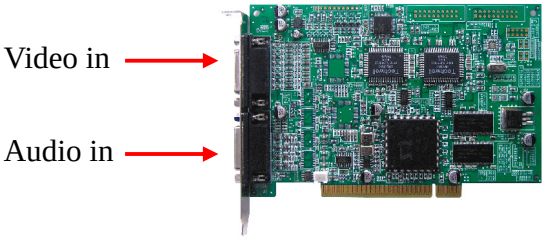
3.2 Product Specifications

Model Number		**ISP-208 8 Channel Video Surveillance Card**
Video	**Format**	NTSC/EIA or PAL/CCIR
	Compression	ISO/IEC MPEG-4 Advanced Simple Profile
	Output	1CH (BNC)
Audio	**Compression**	ITU-T G.723
	Input	8CH (RCA)
	Output	1CH (RCA)
Live	**Resolution**	NTSC: 704x480, PAL: 704x576
	Frame Rate	Real Time for each channel
	Division	1/4/9/16/25/36/Full Screen/Auto Sequence
	OSD	Camera Name/Date/Time
Recording	**Resolution**	NTSC: 704x480, 704x240, 352x240 PAL: 704x576, 704x288, 352x288
	Frame Rate	4CIF: 60/50fps, 2CIF: 120/100fps, CIF: 240/200fps (NTSC/PAL)
	Quality	10 Levels
	Mode	Manual/Schedule/Event (Motion, Alarm)
Playback	**Resolution**	NTSC: 704x480, 704x240, 352x240 PAL: 704x576, 704x288, 352x288
	Frame Rate	4CIF: 60/50fps, 2CIF: 120/100fps, CIF: 240/200fps (NTSC/PAL)
	Division	1/4/Full Screen/Auto Sequence
Event Recording		Pre-Event: 1-60 min Post-Event: 1-60 min
Search Method		By Time or Browse
Camera Adjustment		Brightness/Contrast/Saturation/Hue
Motion Detection		10-level Sensitivity Adjustment 22x15 Area Setting
Intelligence Function		Object Counting Zone Monitoring Face Detection (ISP-208F)
Remote Control		Windows Application, Max. 6x6 Split View, Monitoring, Search & Playback, Backup, E-Map, PTZ Control, Event Notification
Web Browser Support		MS Internet Explorer
E-Map		User-Defined Map Files
Backup Device		Local Devices (HDD, USB), Network, CD-RW
Pan/Tilt/Zoom Control		Pelco-D, Lilin
Digital I/O Control		Max. 192 ports using ISP-9012
Central Monitoring		CMS Server & CMS Control Agent
Mobile Device		WinCE-based PDA or Mobile Phone
PC Interface		PCI
Power Consumption		About 8W
Operating Environment		30~80% RH, 5°C~40°C (41°F~104°F)

4. ACCESSORIES

Please inspect the accessories that come with the package. If anything is missing, please contact the store where the product was purchased.

1. The Video Surveillance Card



2. Video connector

3. Audio connector

4. Software & Driver CD

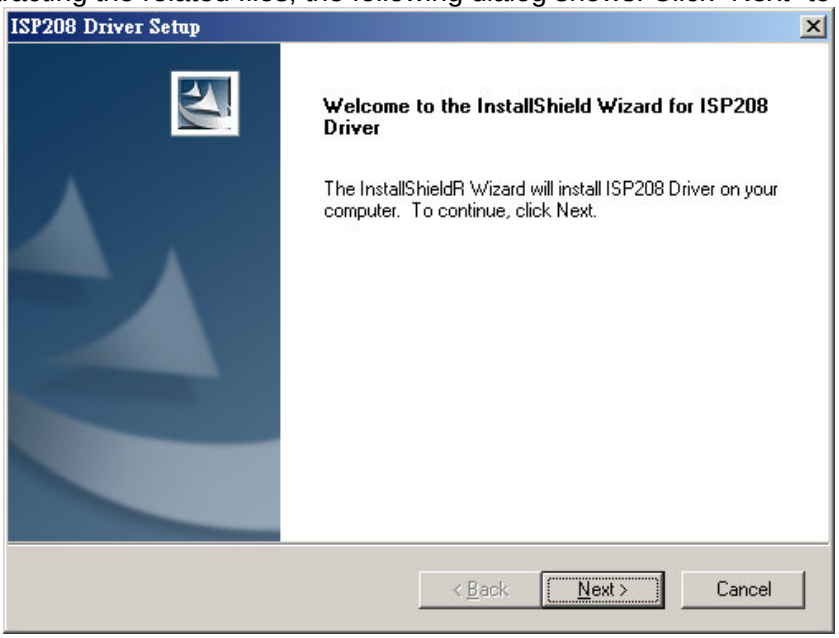
5. User's Manual

5. SOFTWARE INSTALLATION

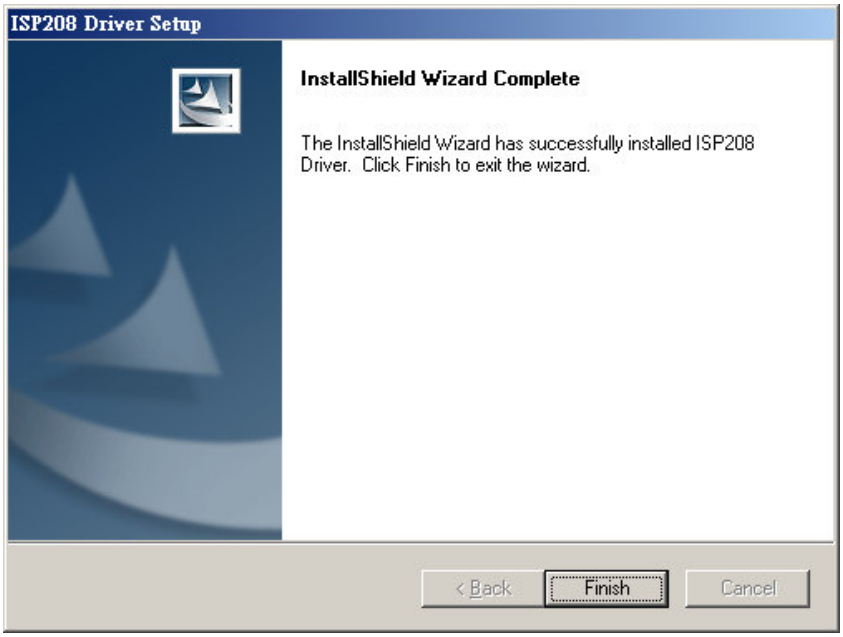
5.1 Driver Installation

Here we take an example for Windows XP environment. There is a similar flow in Windows 2000. Please insert the attached CD into your CD-ROM drive. Execute "\Driver\DriverSetup.exe" to start the automatic driver installation.

1. After extracting the related files, the following dialog shows. Click "Next" to continue.


ISP208 Driver Setup
Welcome to the InstallShield Wizard for ISP208 Driver
The InstallShieldR Wizard will install ISP208 Driver on your computer. To continue, click Next.
< Back
Next >
Cancel

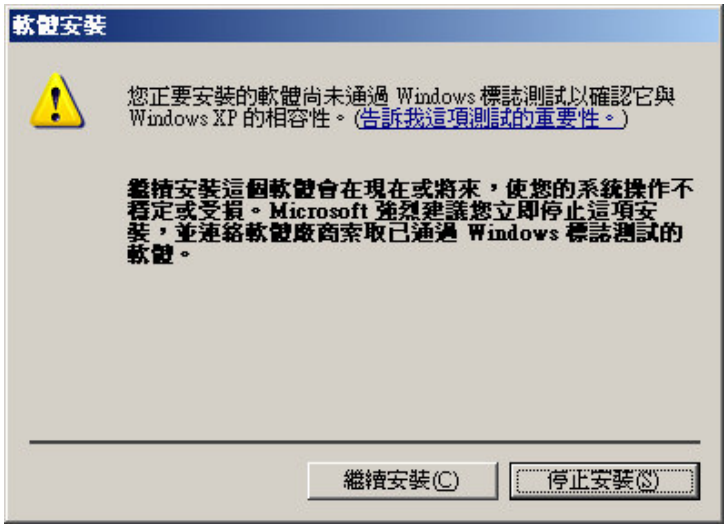
2. Click "Finish" to exit the wizard.


ISP208 Driver Setup
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed ISP208 Driver. Click Finish to exit the wizard.
< Back
Finish
Cancel

3. The Device Driver Installation Wizard will automatically start. Click "Next" to continue.

Device Driver Installation Wizard
Welcome to the Device Driver Installation Wizard!
This wizard helps you install the software drivers that some computers devices need in order to work.
To continue, click Next.
< 上一步(B)
下一步(N) >
取消

4. A warning dialog like the below figure will show. Click "Continue" to finish the remaining installation.



5. Click "Finish" to finish the driver installation.

5.2 Main Program Installation

1. Execute "\DVR\DVRSetup.exe". This is the DVR setup program.
2. After setup is finished, you had better reboot your PC.

5.3 Software Update

You can get the latest version of driver and DVR software from the following URL.

ISP-208
ftp://ibxuser:3015@ibase.com.tw/products/ISP208R3/

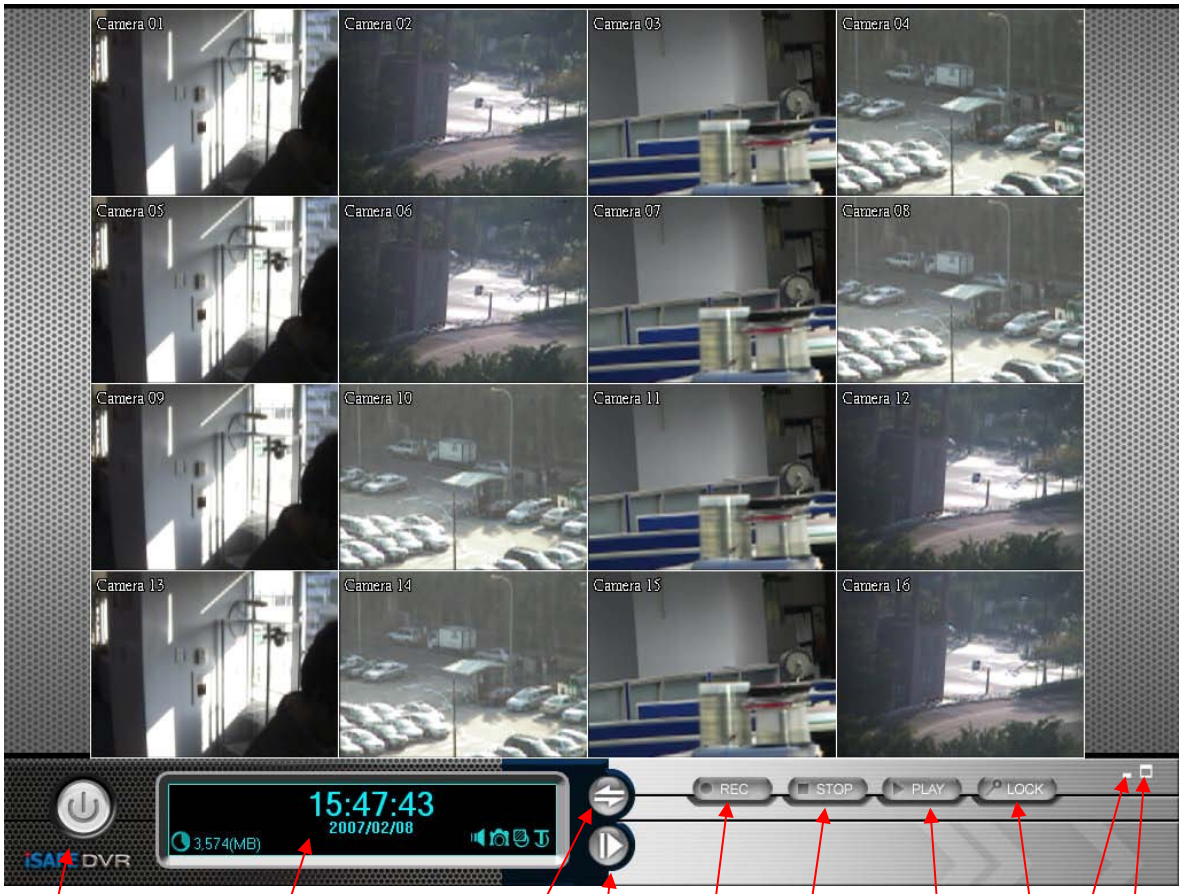
ISP-208F
ftp://ibxuser:3015@ibase.com.tw/products/ISP208F_R3/

FTP Site: ibase.com.tw
Port: 21
Username: ibxuser
Password: 3015
Location (ISP-208): /products/ISP208R3/[date_string]/
Location (ISP-208F): /products/ISP208F_R3/[date_string]/

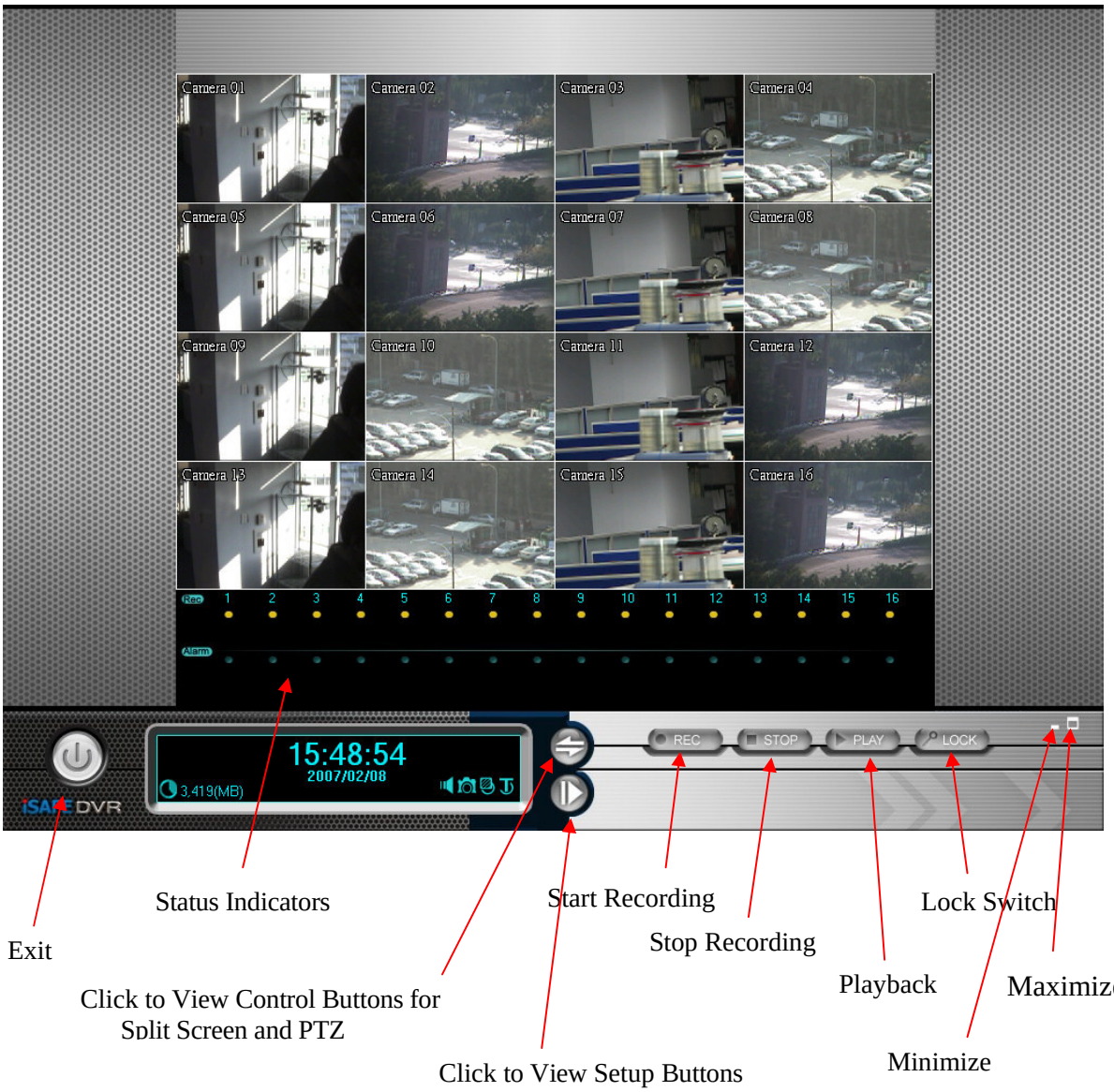
6. MAIN SCREEN INSTRUCTION

6.1 Main Display Screen

1. Large View for Live Display Mode



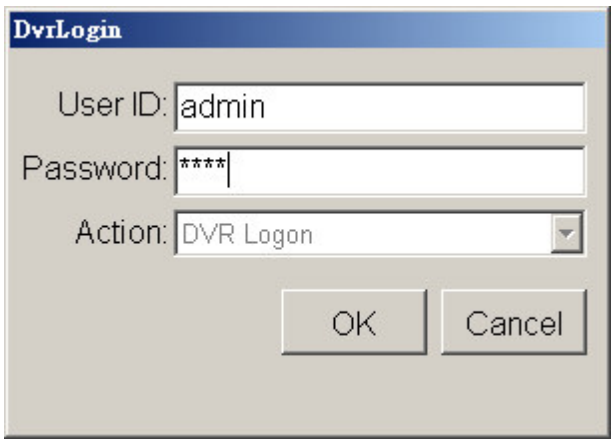
2. Normal View for Live Display Mode



6.2 DVR Lock

1. Before you will be able to access any of the DVR's features you will first need to unlock the DVR. To unlock the DVR click on "Lock" icon.

2. You will then be asked to enter your user ID and password in order to unlock the DVR.
   NOTE: You must have administrator's right to unlock the DVR.
   Default User ID: admin
   Default Password: 0000



3. Once you have entered your user ID and password the Lock Icon will change to look like this.

   You will now be able to access all the systems features and functions.

4. If you wish to put the system back on Lock mode, click on the Lock icon.

6.3 Screen Splits

The DVR comes with several available screen-split options. This section describes what they are and how to use them.

Single Left Click any of these icons for specified view.

Single Camera View

4 Camera View

9 Camera View

16 Camera View

25 Camera View

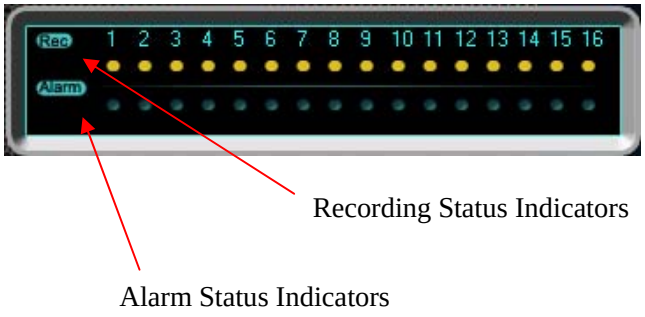
36 Camera View

Next Screen Split by Automation

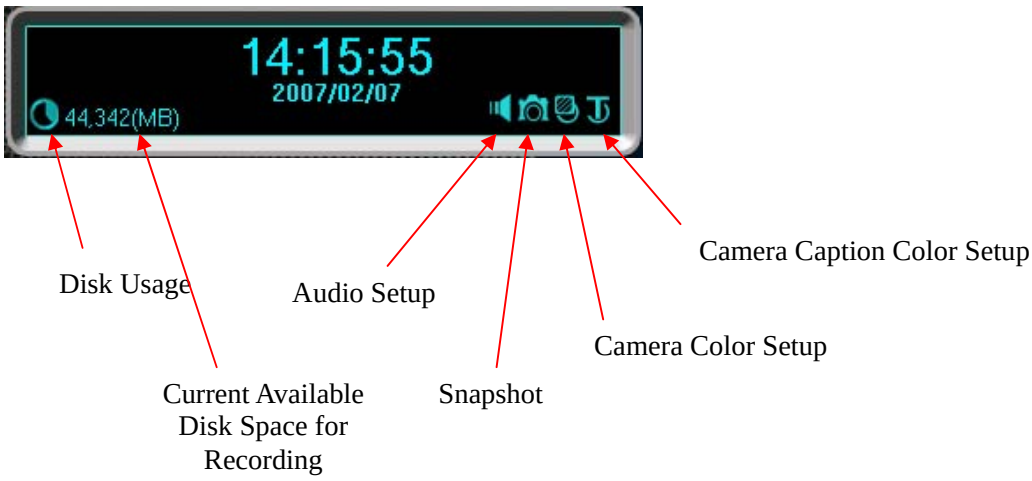
Next Screen Split by Manual

Full Screen

1. Camera Status

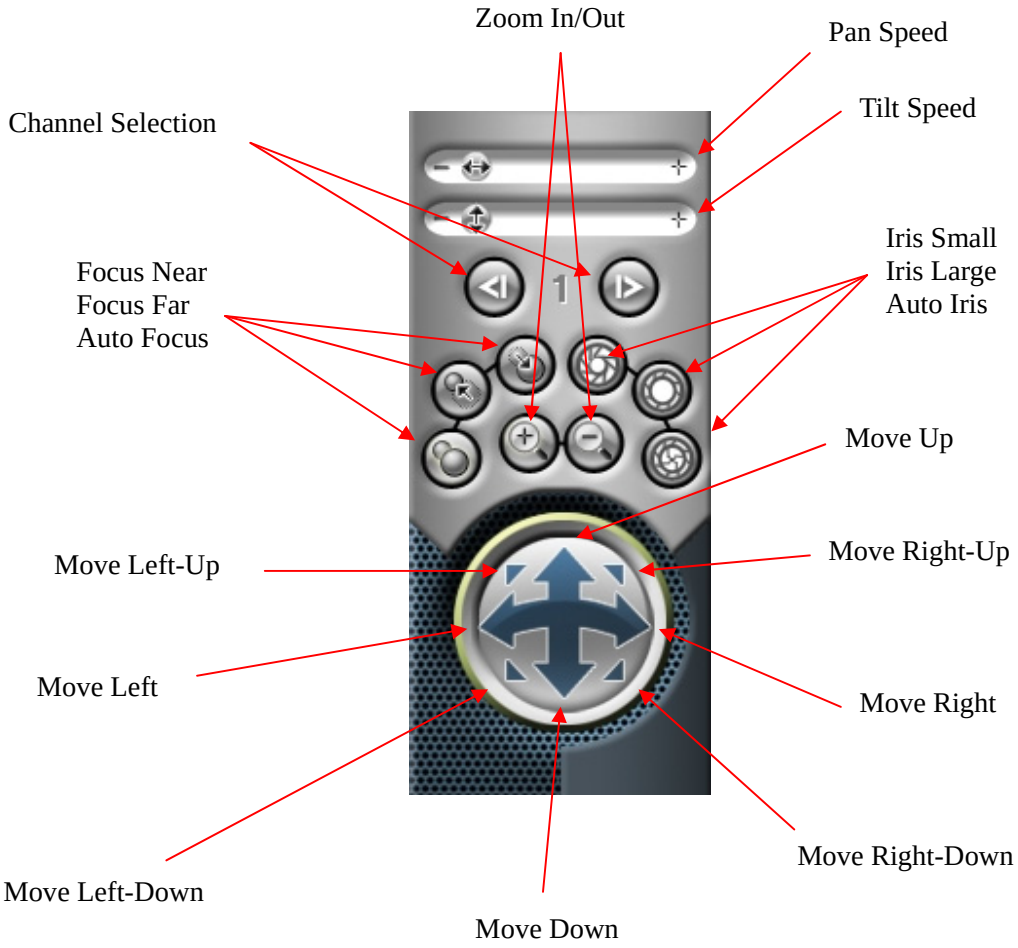


2. Current Time/Date, Speed Buttons, and Current Available Disk Space



3. Pan/Tilt/Zoom Controls

The diagram below shows how to navigate the Pan/Tilt/Zoom controls.



7. DVR SYSTEM SETUP

This section will explain the Setup Features and how to use them.

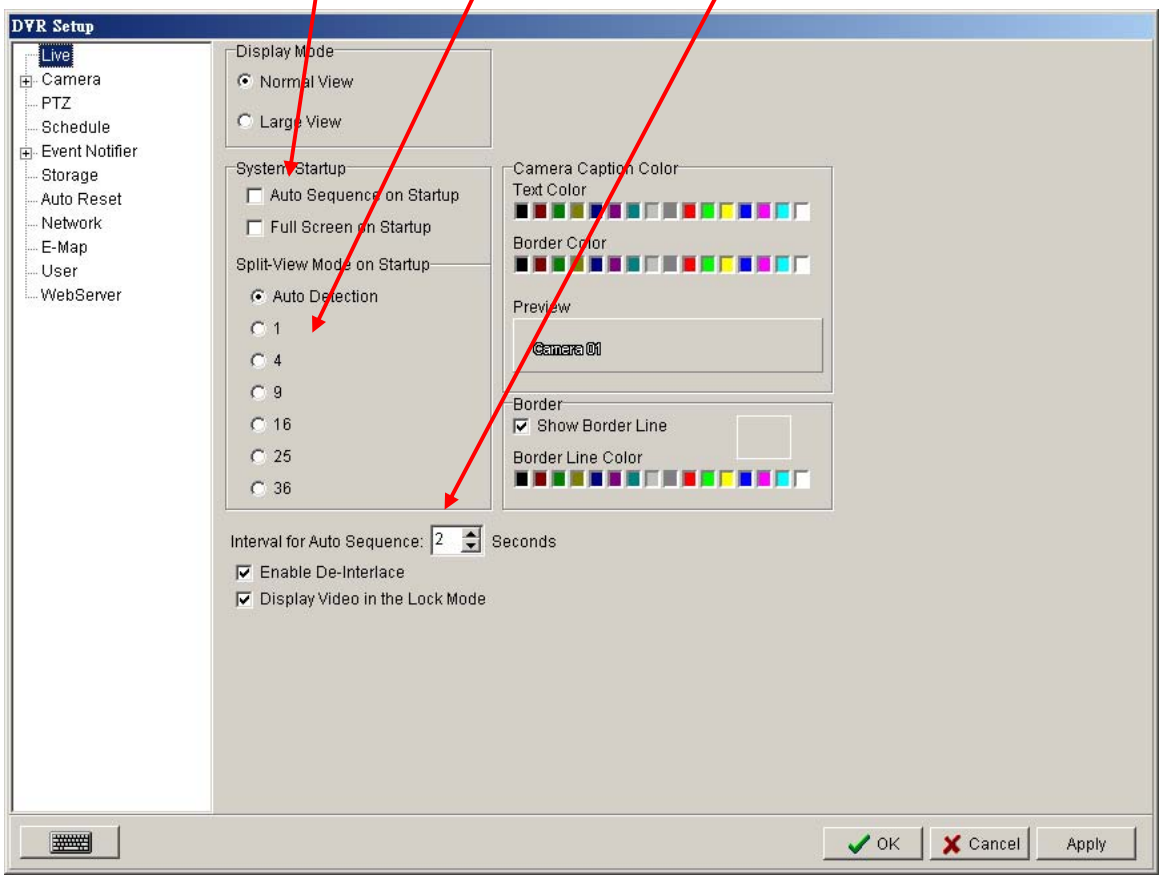
Click on the setup icon to enter setup utility.

7.1 Setup >> Live

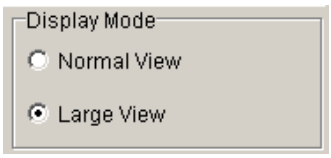
You can select auto sequence or full screen on startup.

Input the time interval for auto sequence.

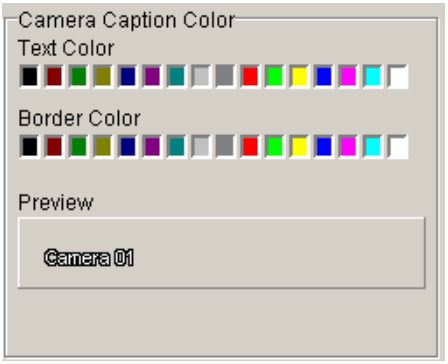
You can select the different display sequence of the screen split modes such as 1, 4, 9, 16, 25, 36 split views.



1. Display Mode



2. Camera Caption Color Setup



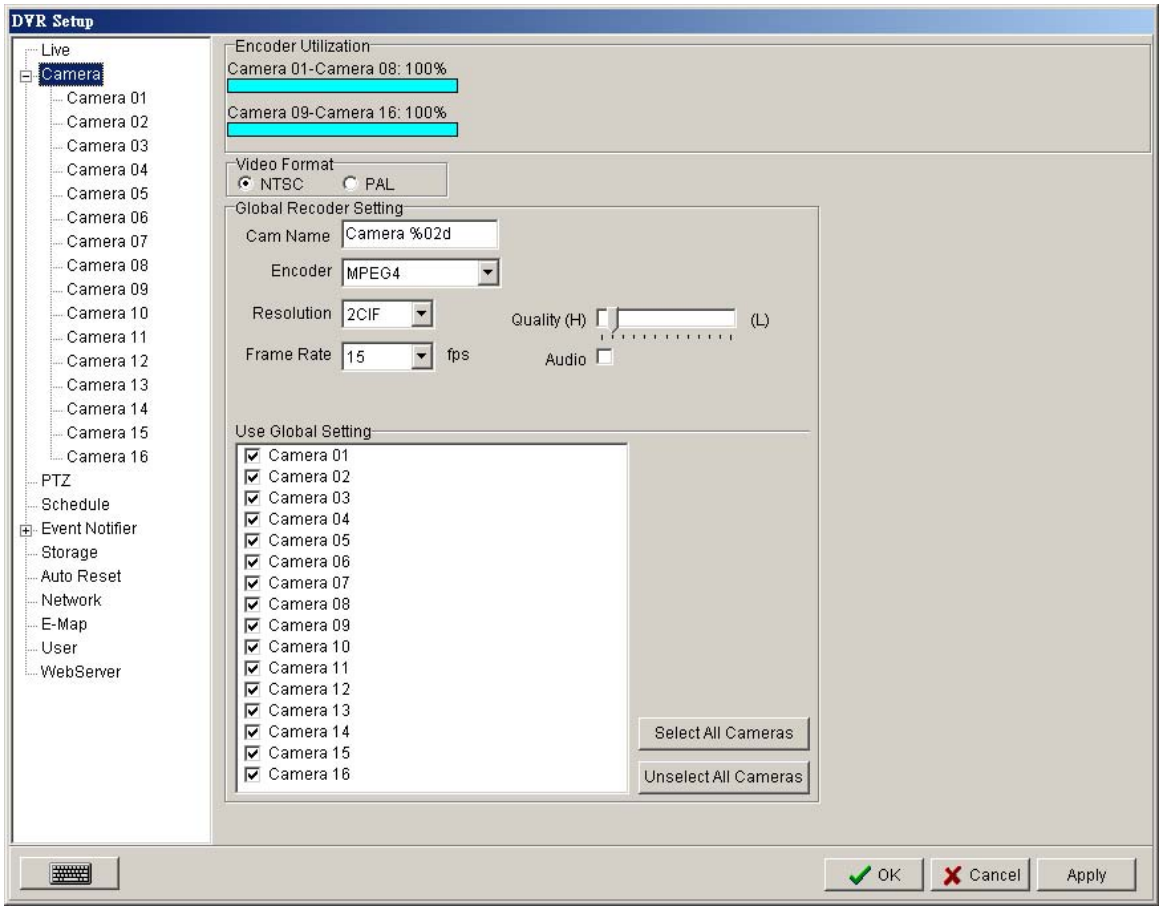
3. Border Color Setup

4. Enable or Disable De-Interlace

5. Enable or Disable Display Video in the Lock mode

7.2 Setup >> Camera

Select the camera you want to adjust.

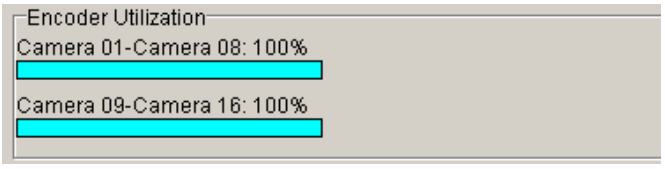


1. Video Format

Select this option for locations that use NTSC or PAL mode.

2. Encoder Utilization Calculation

The encoder utilization never exceeds 100% for each card.



3. Global Recorder Setting

Select the encoder type

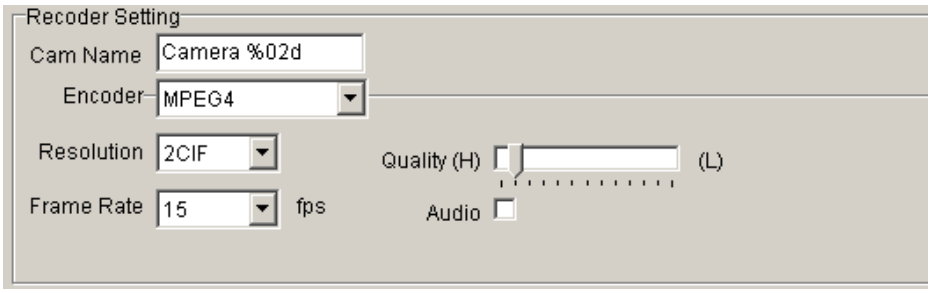
Select the resolution: CIF/2CIF/4CIF

This slider bar simply marks the measurement
of quality assigned to a camera.
Lower quality = lower file size and image quality
Higher quality = higher file size and image quality.

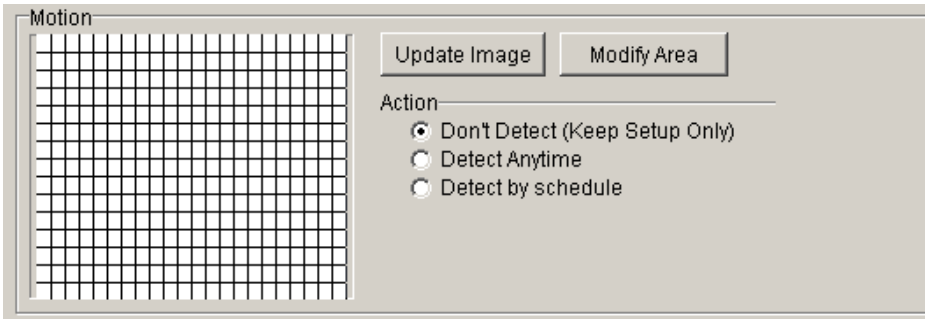
Select the frame rate

Enable audio recording or not

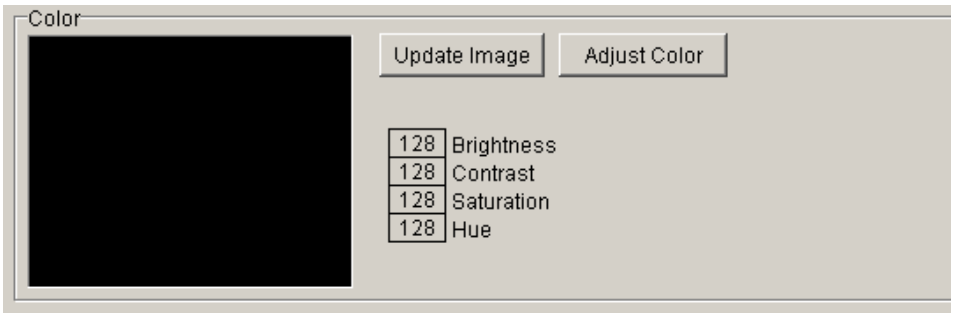
4. Camera Setup >> Recorder Setting



5. Camera Setup >> Motion Setup

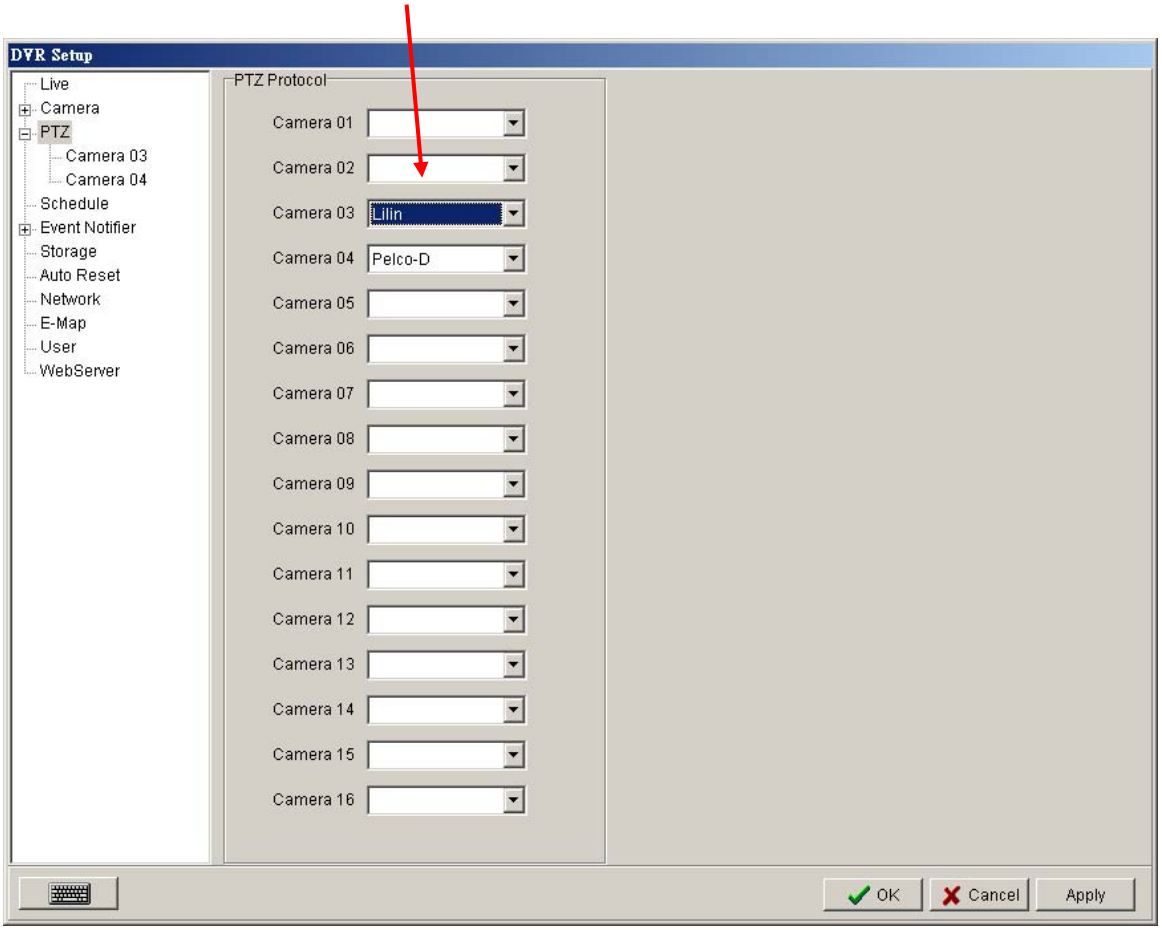


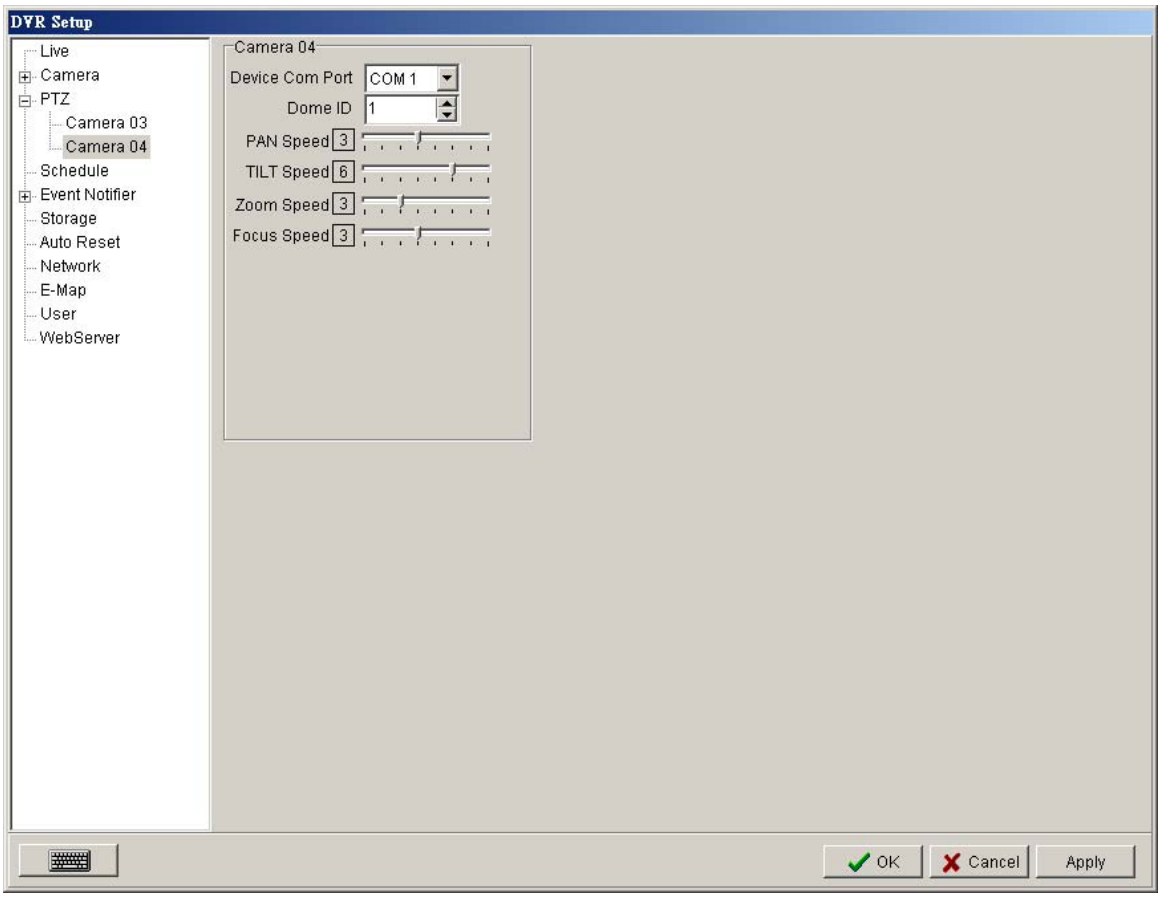
6. Camera Setup >> Color Setup



7.3 Setup >> PTZ

Use the drop down menu to select the type of receiver that your camera uses. Example: Lilin or Pelco-D, etc.



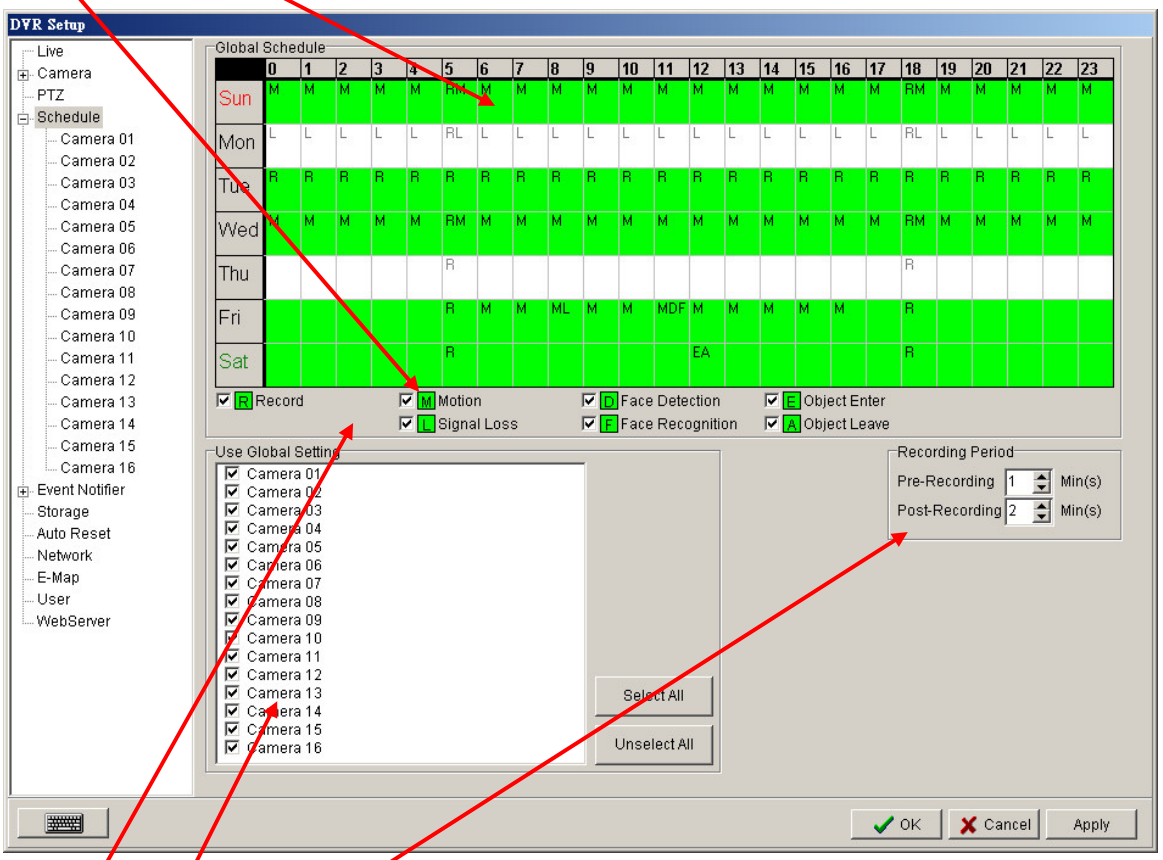

DVR Setup
Live
Camera
PTZ
Camera 03
Camera 04
Schedule
Event Notifier
Storage
Auto Reset
Network
E-Map
User
WebServer
Camera 04
Device Com Port
COM 1
Dome ID
1
PAN Speed
3
TILT Speed
6
Zoom Speed
3
Focus Speed
3
OK
Cancel
Apply

7.4 Setup >> Schedule

The schedule for recording and event detection can be configured in this page. You can weekly arrange the recording time, for each day and each camera. You can also set the time segments to enable event detection, like motion, signal loss, etc. The pre-alarm and post-alarm recording periods can be configured here. Furthermore, you can set the related channels to start recording once some event occurs on some specific channel.

Green indicates the configuration of this time grid is enabled; White indicates disabled. Click the individual grid, the day column, or the hour row to change the color.

Drag the event symbols and drop onto the corresponding grid to set the event detection. Right-click on the grid, the day column, or the hour row can do the same configuration.

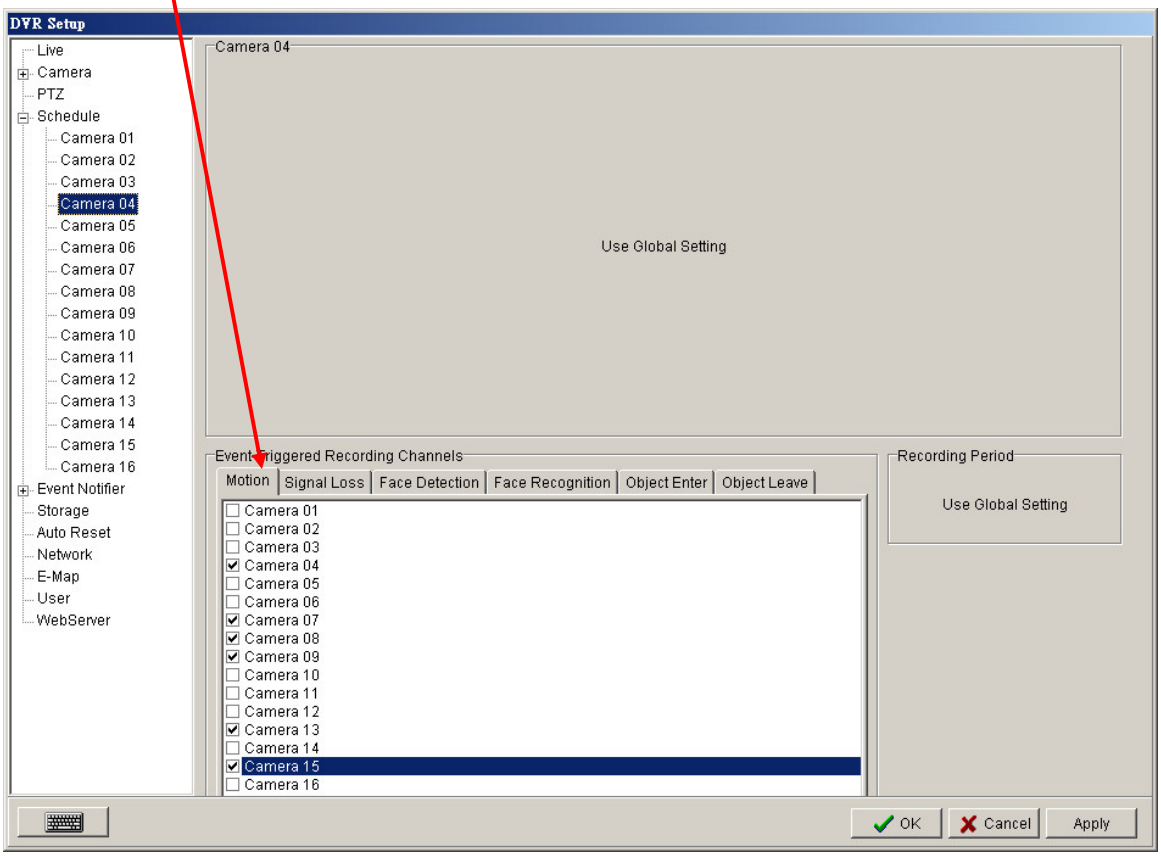


Event Display Filter: The checked events will be shown in the above schedule table, or vice versa.

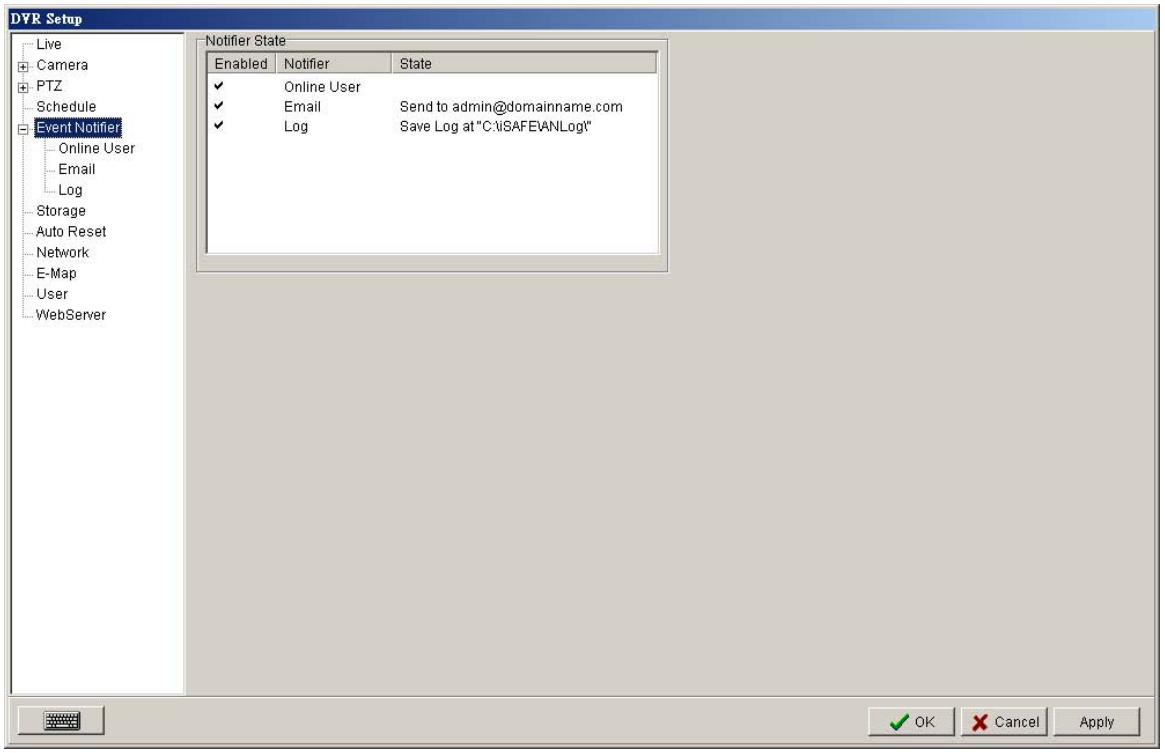
Set the pre-alarm and post-alarm recording periods. Both values are effective for all channels.

Choose the channels which use the schedule settings on this page.

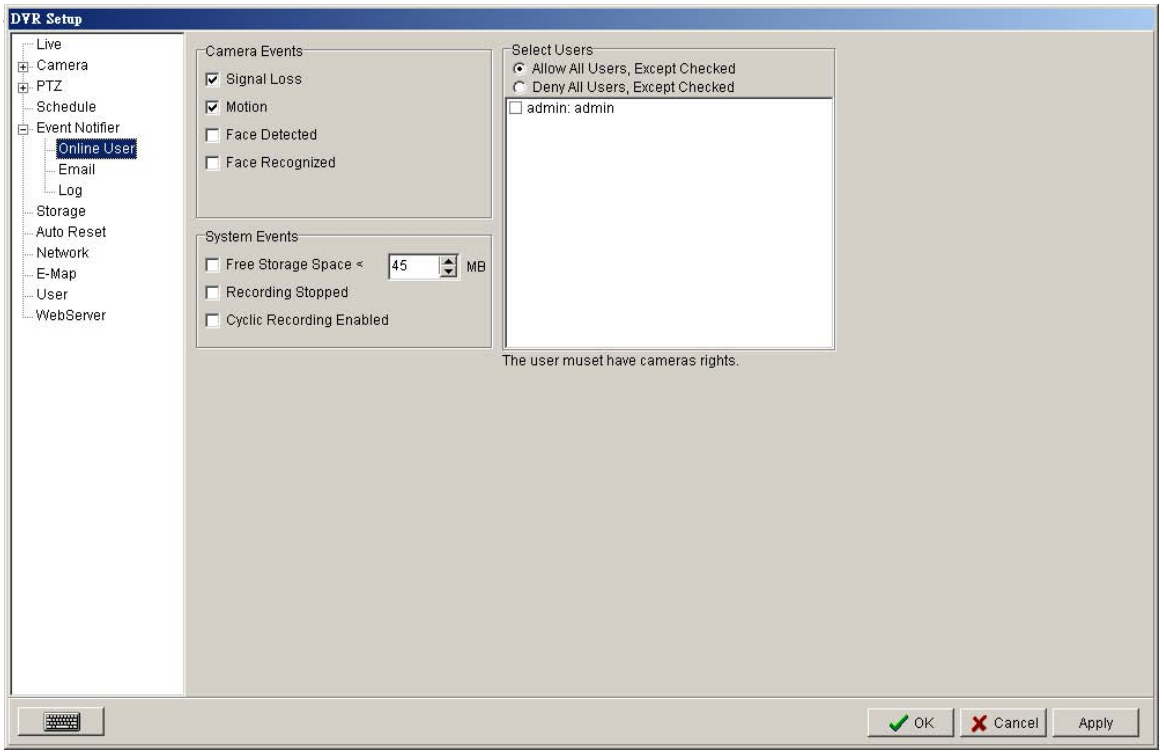
Choose the related channels to start recording when some event occurs in some specific channel.



7.5 Setup >> Event Notifier

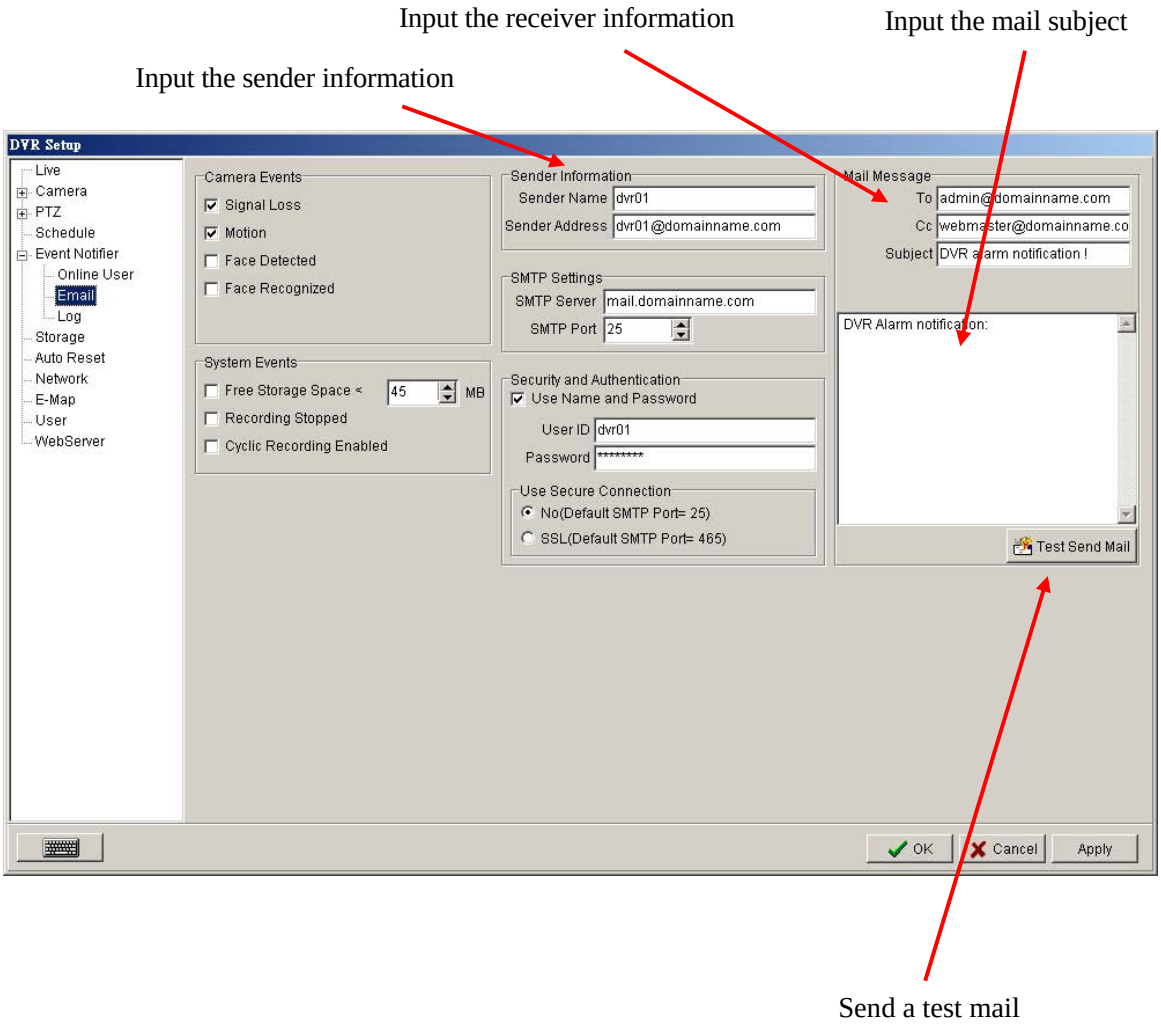


1. Online User



2. Email

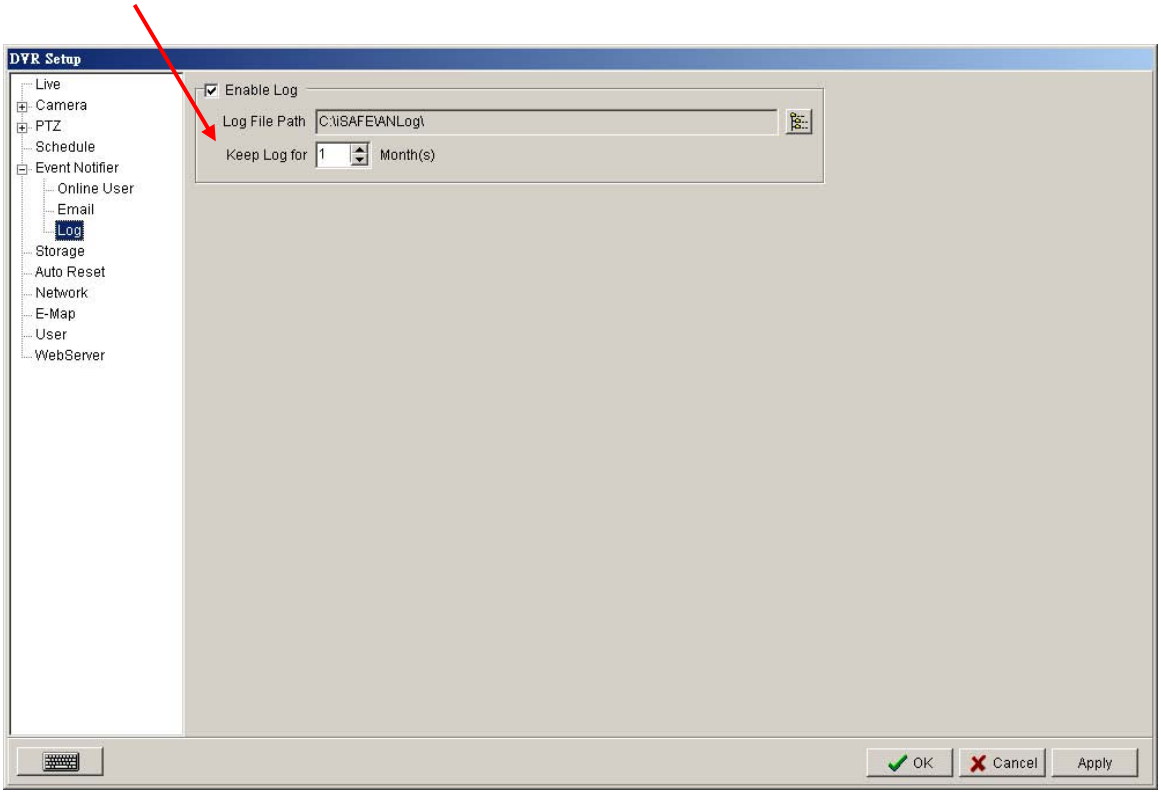
If the camera events or system events occur, the system will notify for you.



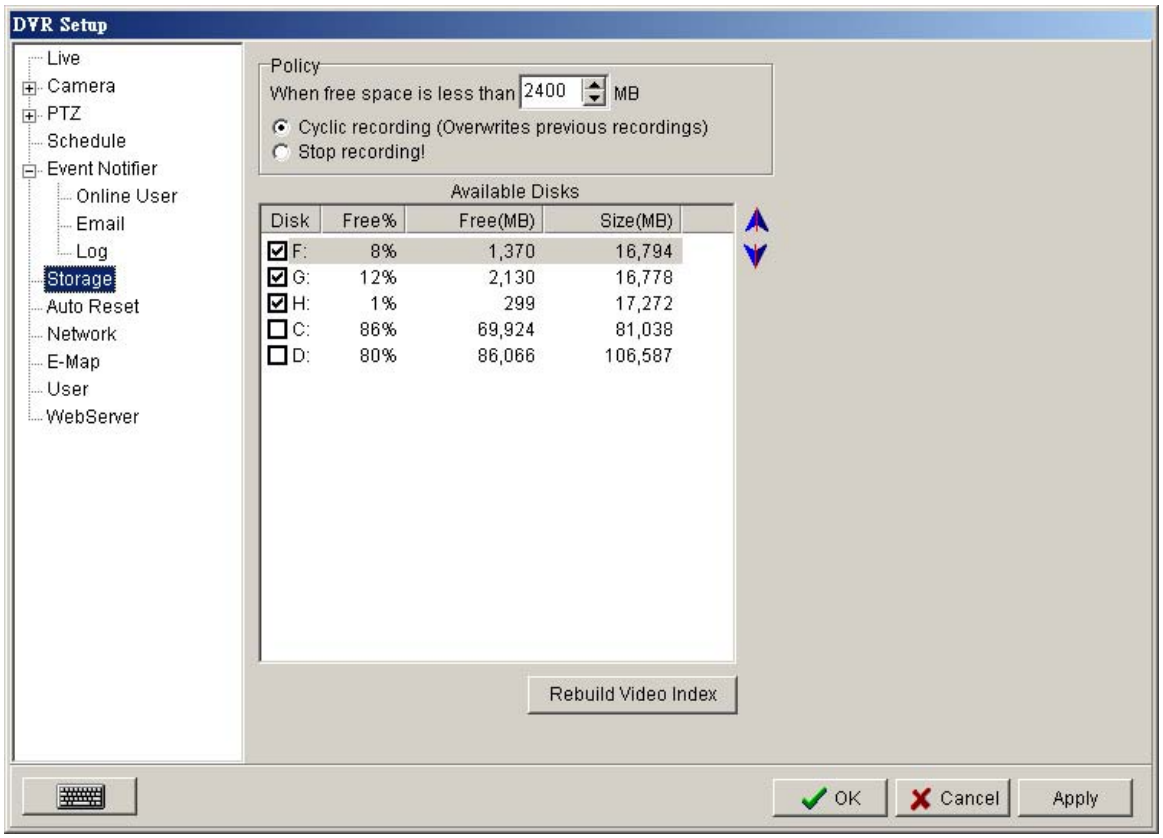
3. Log

To setup the log file path, the login user will be recorded in log files.

You can select the time interval to delete the log file.



7.6 Setup >> Storage



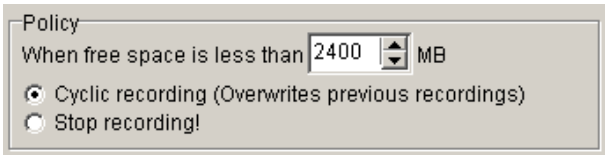
In this section, the storage menu will be introduced.

1. Safety Capacity

Set the disk volume buffer as safety capacity for cycle recording.

When the capacity is less than safety capacity, you can select cycle recording or stop record.

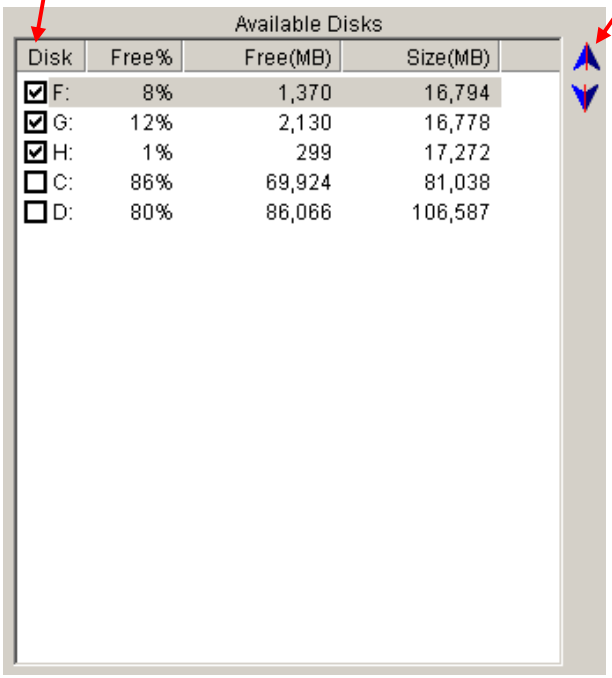
If you select the cycle recording, the older recorded files will be covered. You can adjust the safety capacity, but the capacity is not greater than the capacity of your hard disk.



2. Available Disks

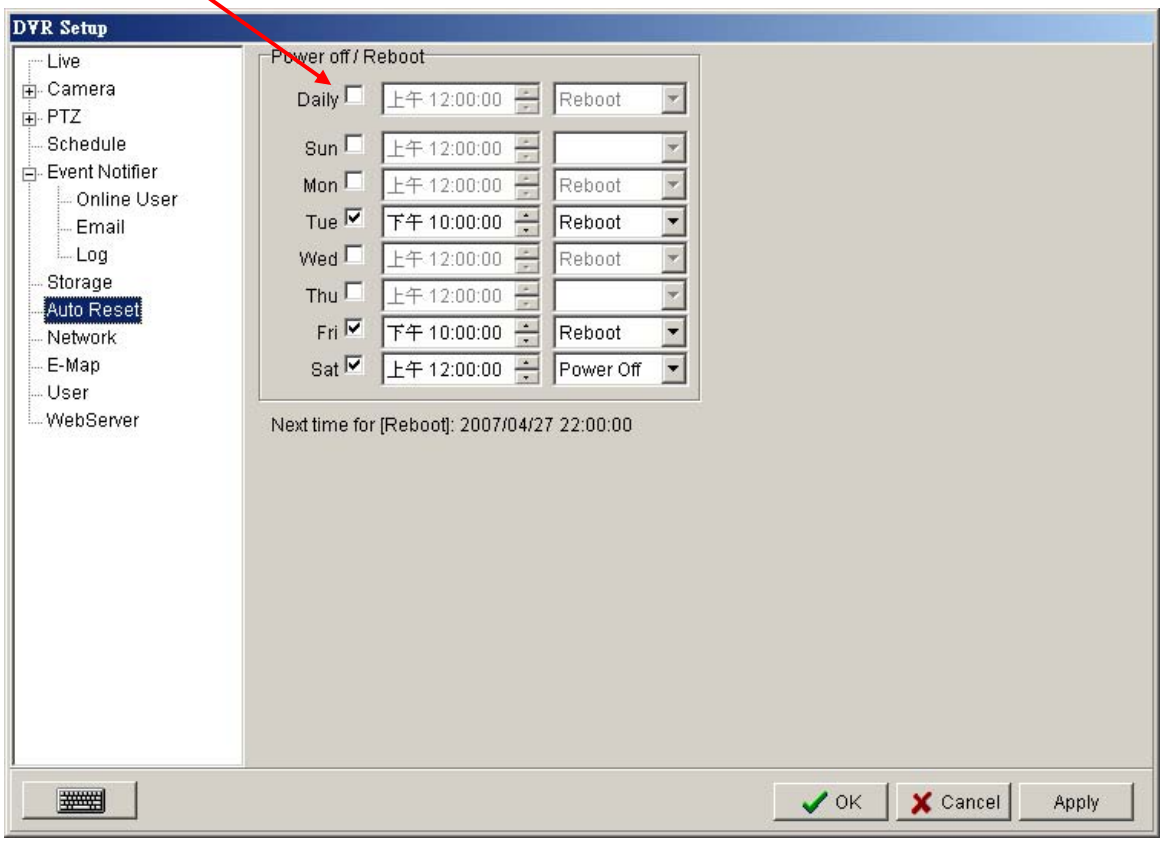
Select hard disks to record.

You can use the up & down arrows to select which disks you want to record.



7.7 Setup >> Auto Reset

Select **Daily** to setup a scheduled reboot. When this option is selected it allows you to have the system power off /reboot per scheduled time.



Rebooting

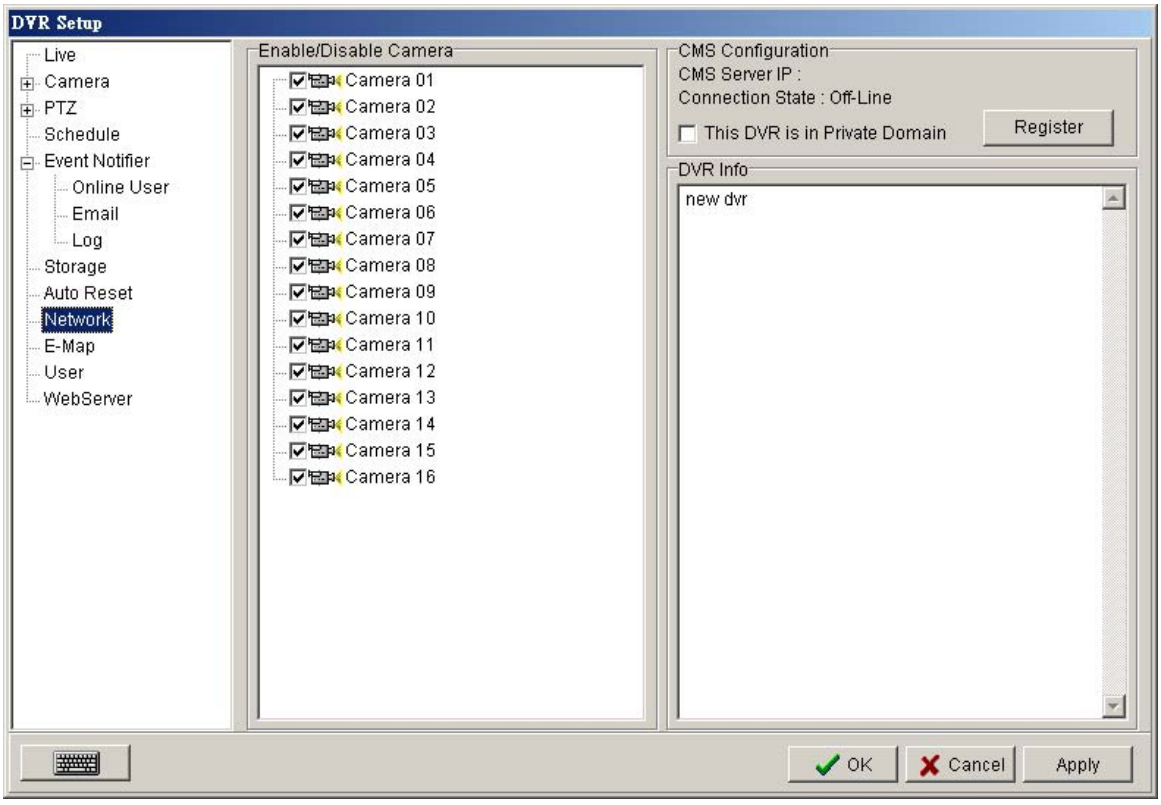
Select Use Everyday to setup a scheduled reboot. When this option is selected it allows you to have the system reboot per scheduled time.

Shutdown

Select Use Everyday to setup a scheduled shutdown. Only select this option if you want the DVR to completely shutdown and NOT RECORD until turned back on.

7.8 Setup >> Network

This setup page is for CMS (Central Monitoring System) configuration. If you plan to put this DVR under the control of the CMS, the registration to the CMS server is the first step. The IP address of the CMS server and the authentication code are required for registration.



About the installation and operation of CMS software, you can read the CMS Operation Guide for more details.

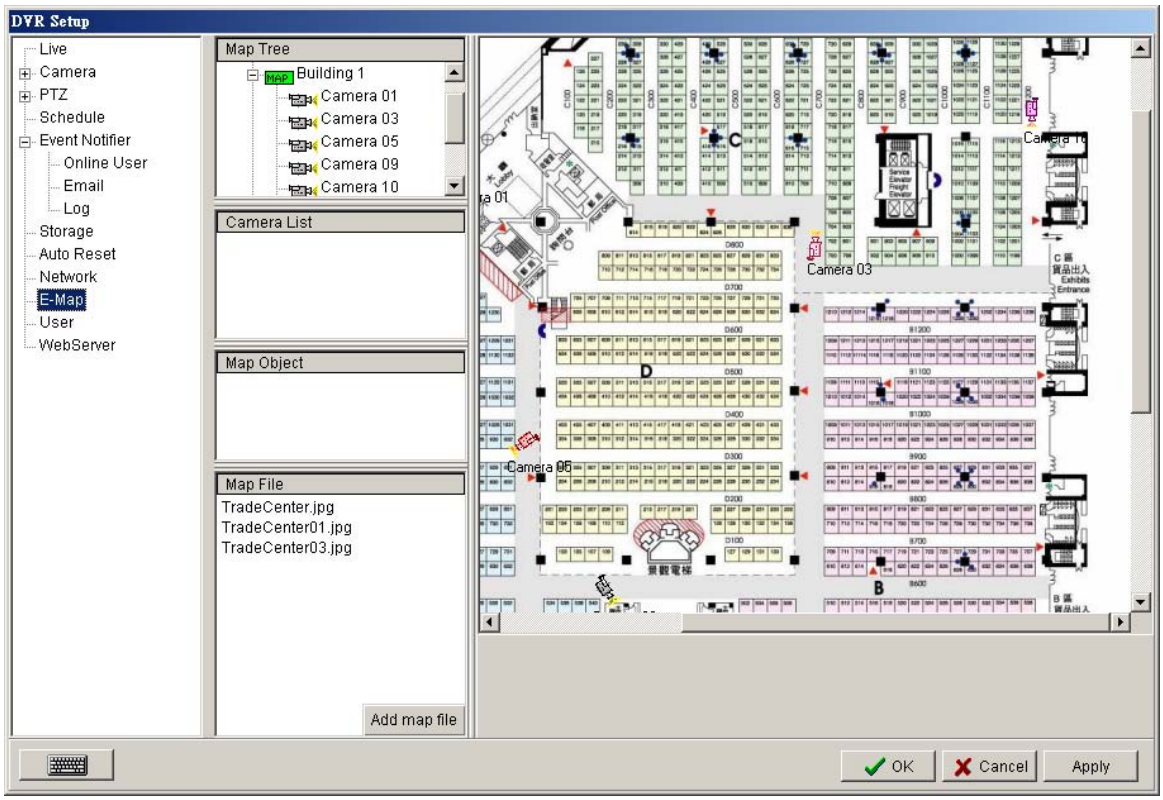
7.9 Setup >> E-Map

This section will explain the functions of the E-Map Menu.

First, load the map file that user like to monitor. The format of map file can be JPEG or BMP.

Second, drug and move the camera icons list on the right side to the position on the map. The position is the place that camera monitors.

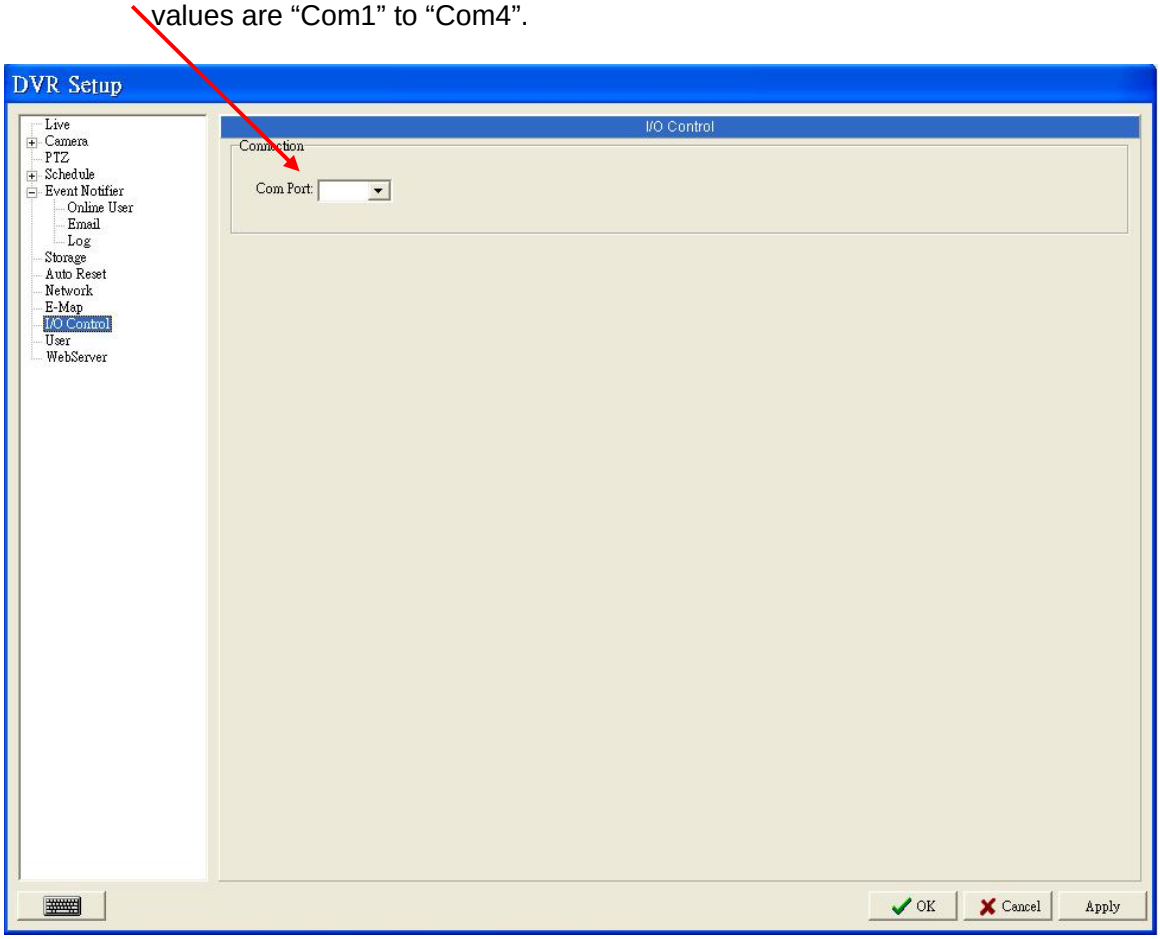
Finally, users can open E-Map on the main panel to view the image.



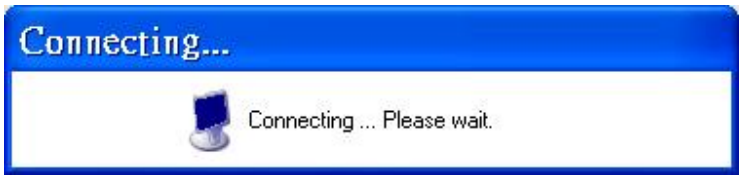
7.10 Setup >> I/O Control

ISP-9012 digital I/O box was designed to cooperate with ISP-208. By proper configurations of the I/O control page, you can control external devices or be notified by some detection sensors.

Com Port: Set the communication port for connecting with digital I/O box. The allowed values are "Com1" to "Com4".



The following message box will be shown as the communication in progress.



Once you see the new device node emerges in the left tree, the device connects successfully. Every device node has its own "Input" and "Output" setup page.

Input Page

Port: Set the port number for input signal.

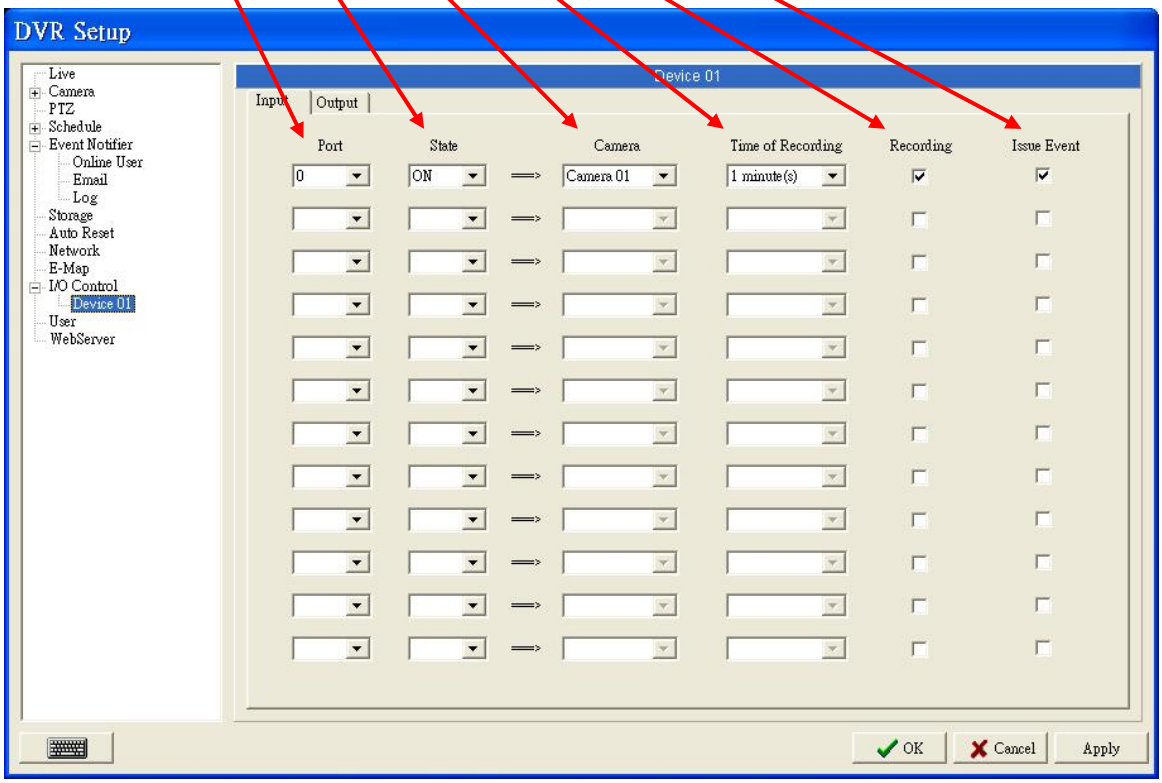
State: Set the ON/OFF state. If the state of the port changes to the value, the defined action (record) will be activated.

Camera: Set the channel for recording.

Time of Recording: Choose the recording period of time in minutes.

Recording: Whether the channel starts to record or not.

Issue Event: Whether the system issues an "I/O Input" event or not.



Output Page

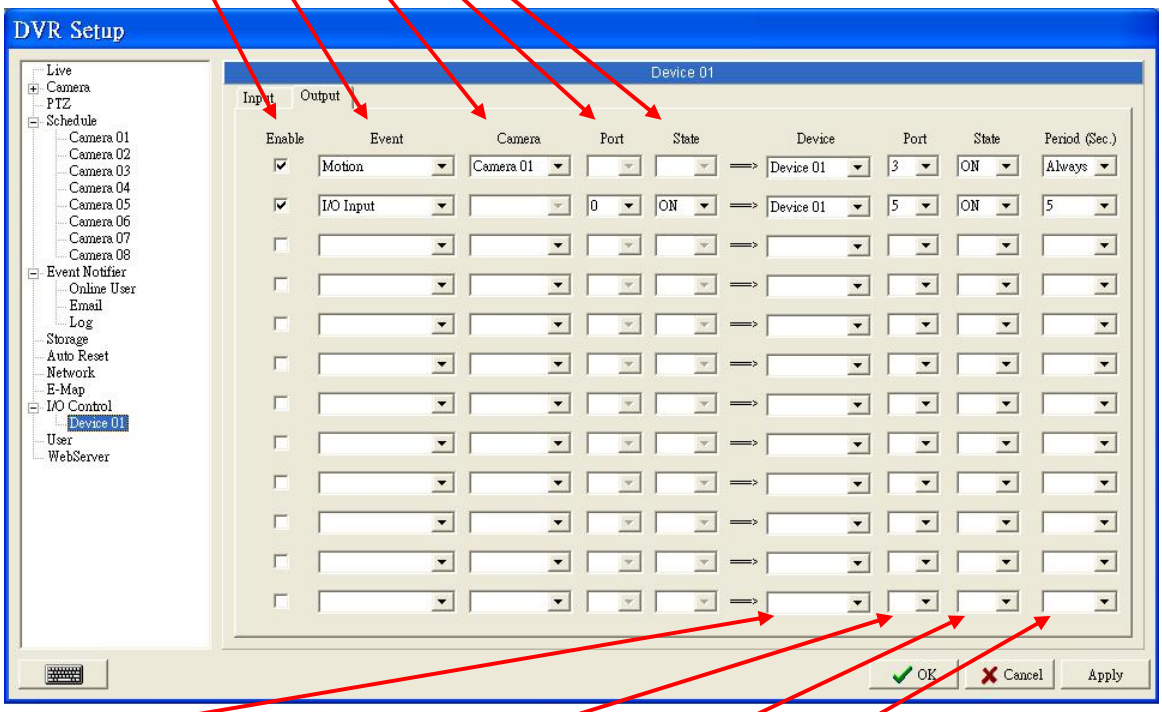
Enable: Enable this item or not.

Event: Set the event to trigger the output port. The events include Video Loss, Motion, Face Detection, Face Recognition, Object Enter, Object Leave, and I/O Input.

Camera: Select the channel that event occurs.

Port: Select the port that digital input occurs.

State: Select the interest state of the port.



Device: Set the output device ID.

Port: Set the output port number of this device.

State: Set the state which the port will change to after the event occurs.

Period (sec): Set the holding duration of the state in seconds. The state will keep on without time limit if you select "Always".

7.11 Setup >> User

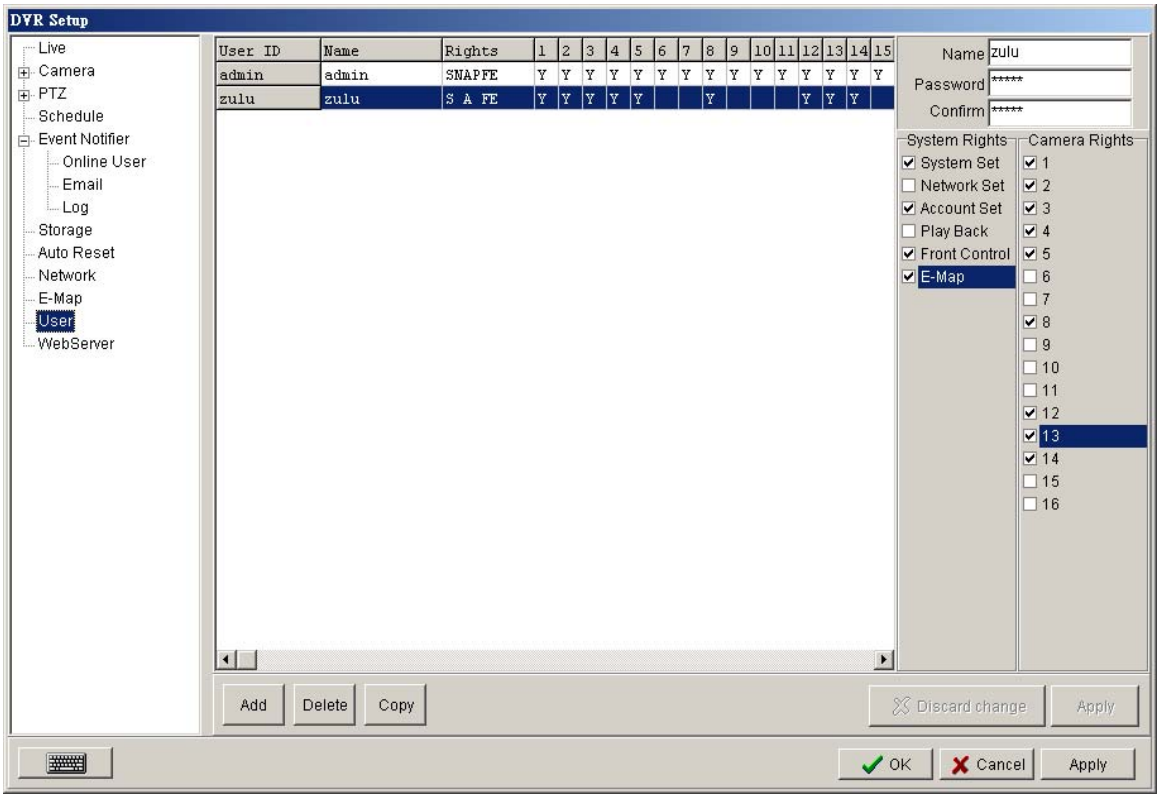
This section will explain the functions of the User Manager Menu.

1. Click on "Add" button to open the Add User Dialog Box.
2. Enter a User ID, Password, Name and optional comments.
3. Select the functions you would like that user to be able to access.

NOTE: Selecting all features and cameras gives that User administrative right.

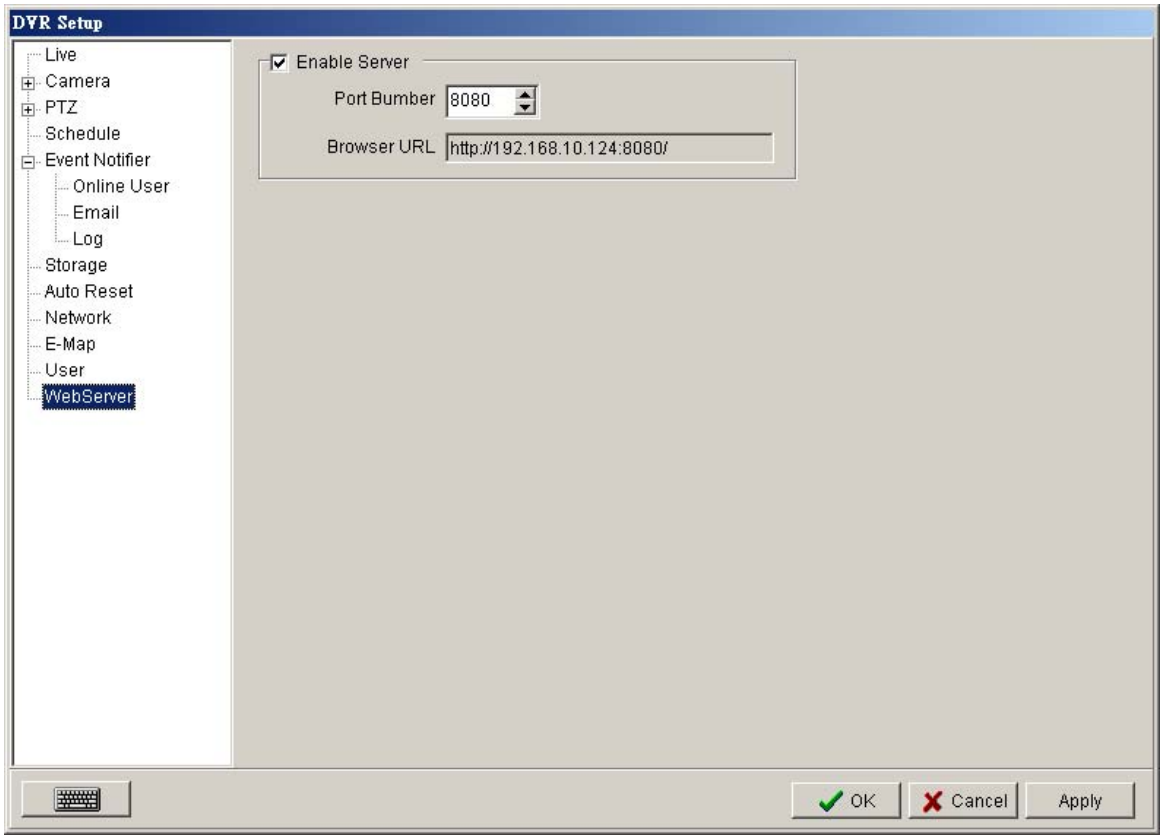
4. Select which cameras that user will have rights to.

NOTE: Cameras must be selected or no cameras will be accessible through DVR.



7.12 Setup >> Web Server

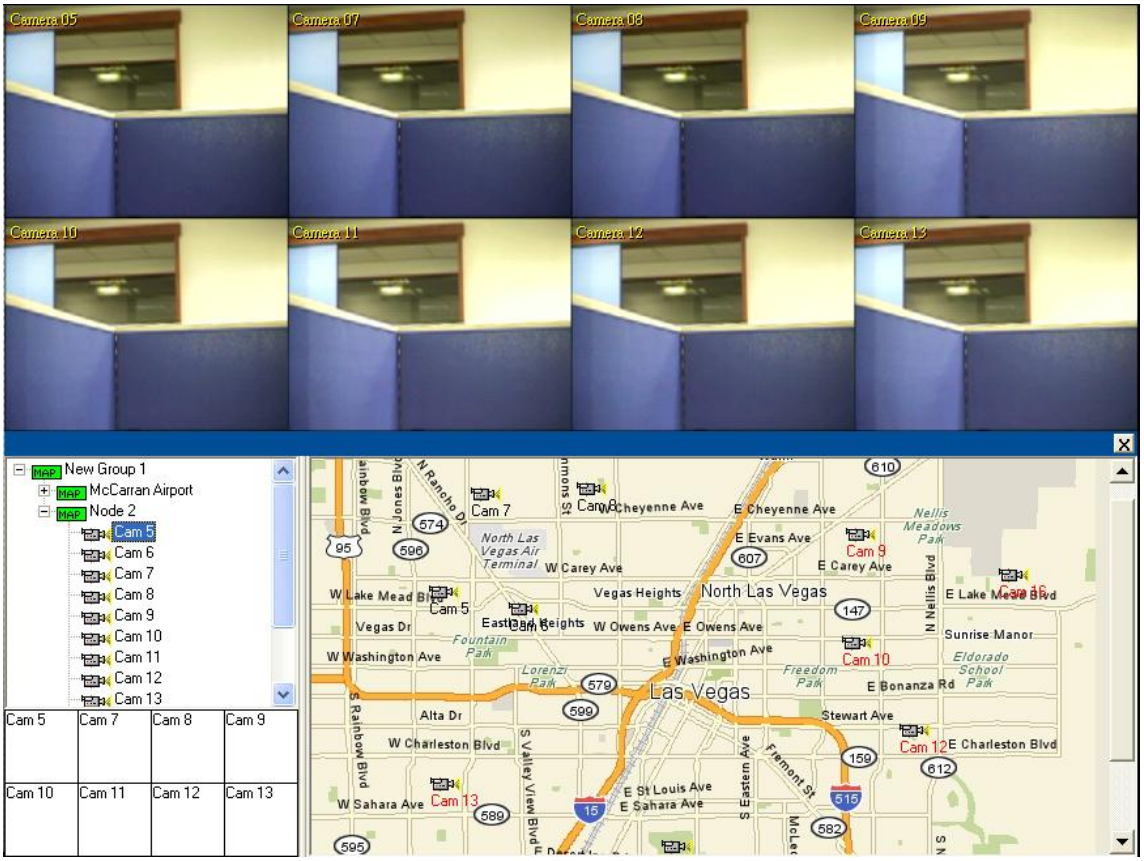
This setup page can enable or disable the built-in web server in the DVR. Users can remote control the DVR by Microsoft Internet Explorer via the network if the web server is enabled. To avoid the port conflict you can assign a specific port number other than 80 for web connection.



8. E-MAP

Click "eMAP" button on the DVR main panel to enter the E-Map dipslay mode.

1. E-Map Display Mode



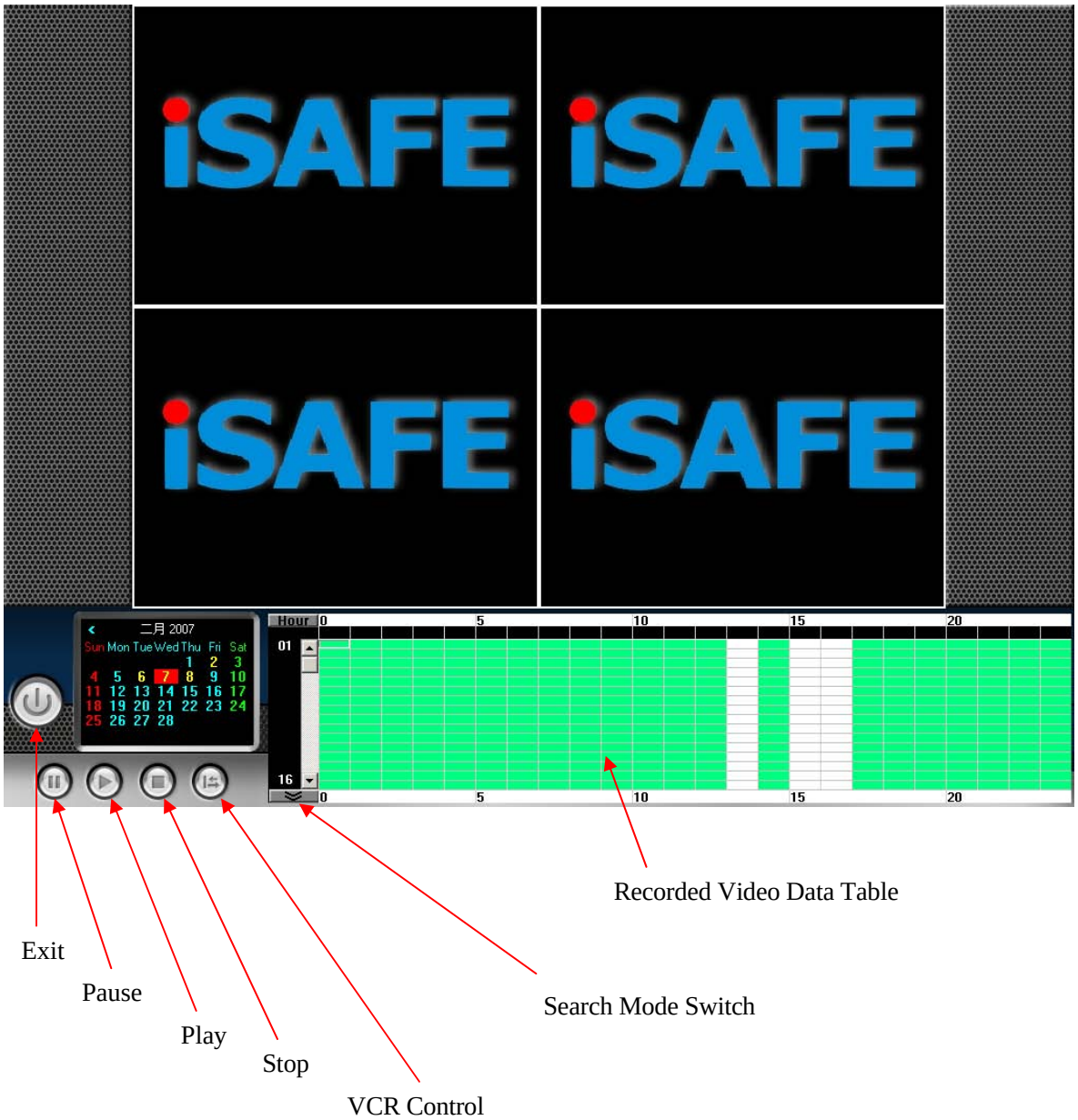
2. Exit the E-Map Display Mode

Click the "x" to exit. Notice that in this mode all buttons on the DVR main panel are disabled until you leave this mode by clicking "x".

9. PLAYBACK

Click the "PLAY" button on the DVR main panel to enter the search & playback program.

"Search & Playback" is the utility which is used to search the video database for specific video segments. After search is finished the recorded video data are shown by means of time table. You can drag a grid of time segment on the table and drop on any one of the four screens to view the video.



This allow you to change the month for showing dates

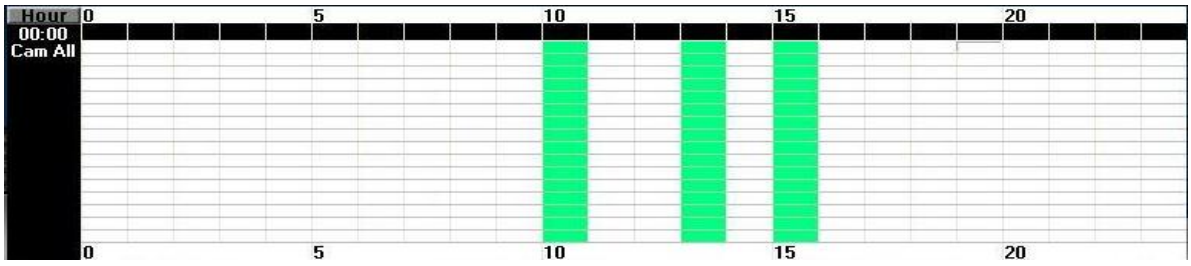
Day Selection

1. **The calendar** allows you to select the date of the recorded video you wish to view.

   The buttons ("<" and ">") allow users to move the month backward and forward.
   The days shown here that are yellow is the days that have recorded video. Click on the day that you want to view the recorded video.
   NOTE: The DVR uses a FIFO (First in First Out) file system. Recorded number of days will depend strictly on how much storage space is in the DVR and the resolution / recording settings.

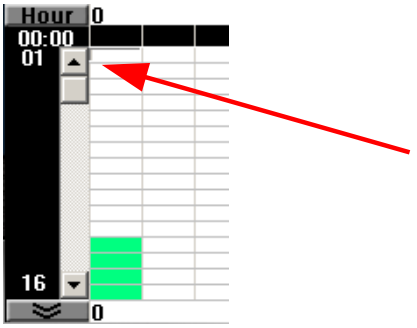
2. **Data Grid**

   When have picked the day that you want to review the grid show below will change to colored blocks. The blocks colors will depend on what type of recording you have set the DVR to do.
   For example, motion will be in yellow.

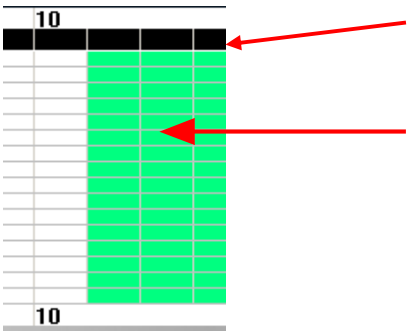


This section displays the hours. The grid is setup in a 24-hour format. By double-clicking on the black blocks it will change the format into minutes. See diagram below.

This section displays the minutes. By double-clicking on the black blocks it change the format into hours. See diagram below.

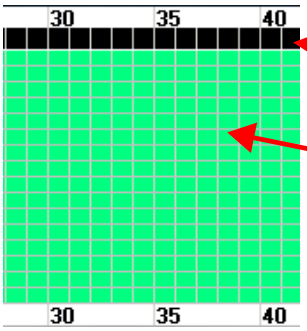


You can use up & down arrows or scroll bar to select the camera number you are interested in.



Hours

Choose the camera you are interested in. Drag the time-corresponding colored box and drop to any screen. The recorded video will be playback then.



Minutes

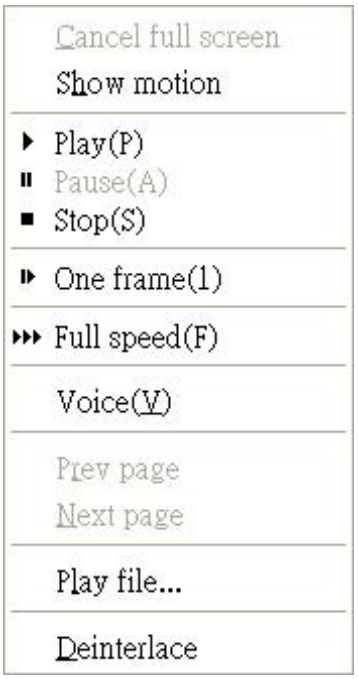
Choose the camera you are interested in. Drag the time-corresponding colored box and drop to any screen. The recorded video will be playback then.

3. Popup Menu

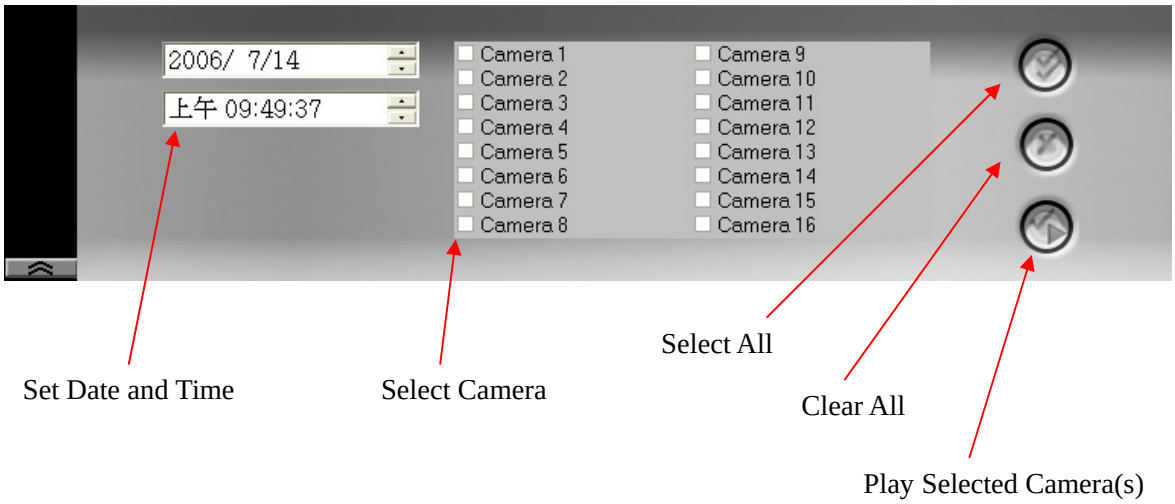
If you right-click the camera screen, the following options are shown.

You can enable the following functions: cancel full screen, show motion, play, pause, stop, step one frame, full speed, voice, previous page, next page, play file, and de-interlace.

Note: The default setting of video playback does not enable de-interlace function.



4. Playback by Time Assignment



5. Playback VCR Control

You can control play/pause as well as playback direction and speed by clicking each of the icons on the on-screen control.

The diagram below will explain and show you how to playback the video on the DVR.

6. Slider Bar

Use the slider bar to control how slow or fast you want the video to play.

7. Audio

If the DVR is set to record audio then you will need to click on "Sound" icon to hear the playback.

Mute Audio

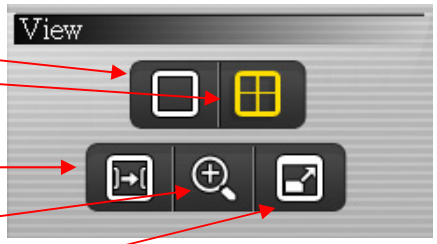
Active Audio

8. Display Toolbar

Single camera view
4 cameras view

Advance the cameras that are in either the single split or 4 views split to the next section of cameras

Video Zoom In/Out
Playback video in the full screen mode

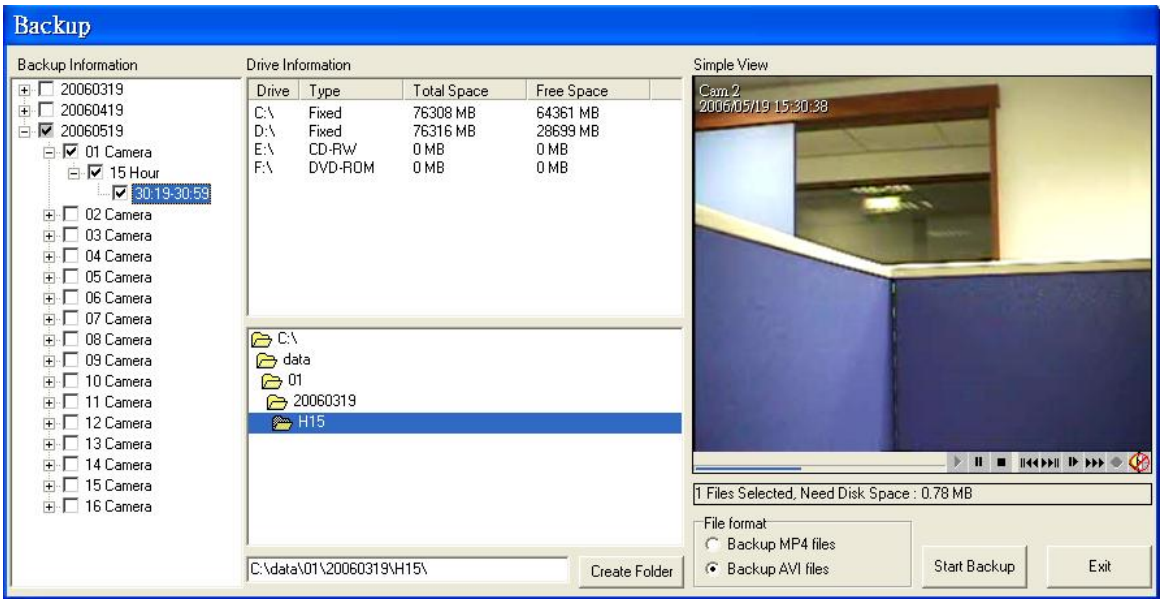


9. Backup

This section will describe how to make still image and moving image files.

1. Select the designated Date and Time of the image you are wanting to save in either JPEG (Still image format) or AVI (Movie format playable in any computer that has Windows Media Player).

2. Click this button to create Still or Moving images.



3. Use this drop down menu box to select the location that you want to place your still image or moving image recording.

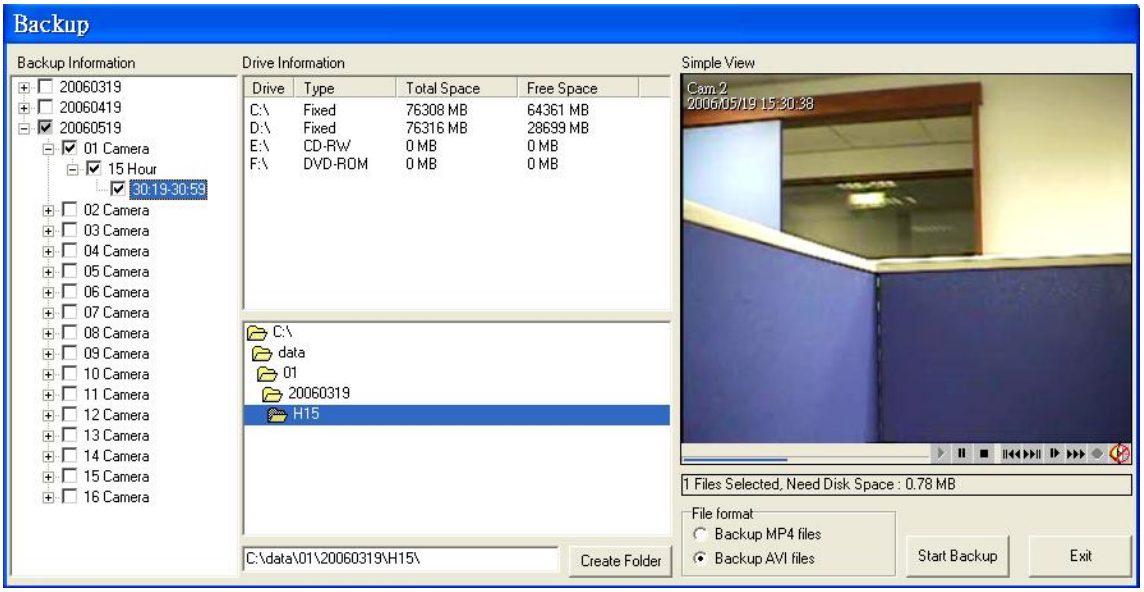
4. This box shows how much space is available on the selected drive or location.

5. This section allows you to select a certain file location under the selected drive location to save recording.

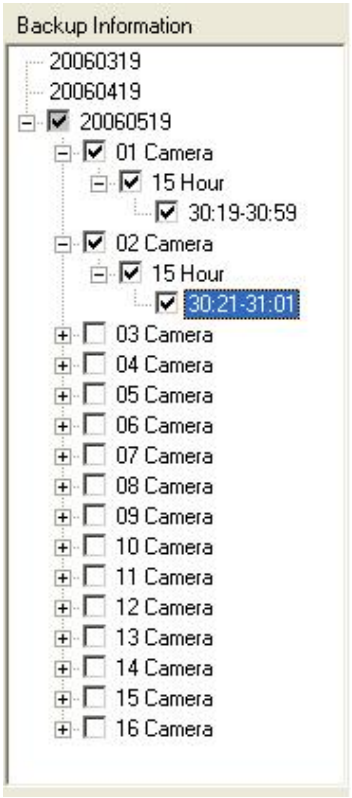
6. After you have made all the adjustments click "OK" button to save your clip or "Cancel" button to return to the Search program.

10. BACKUP

Click "BACKUP" button on the DVR main panel to enter the backup program. This section will explain the features and how to use it.



1. Select the specific date



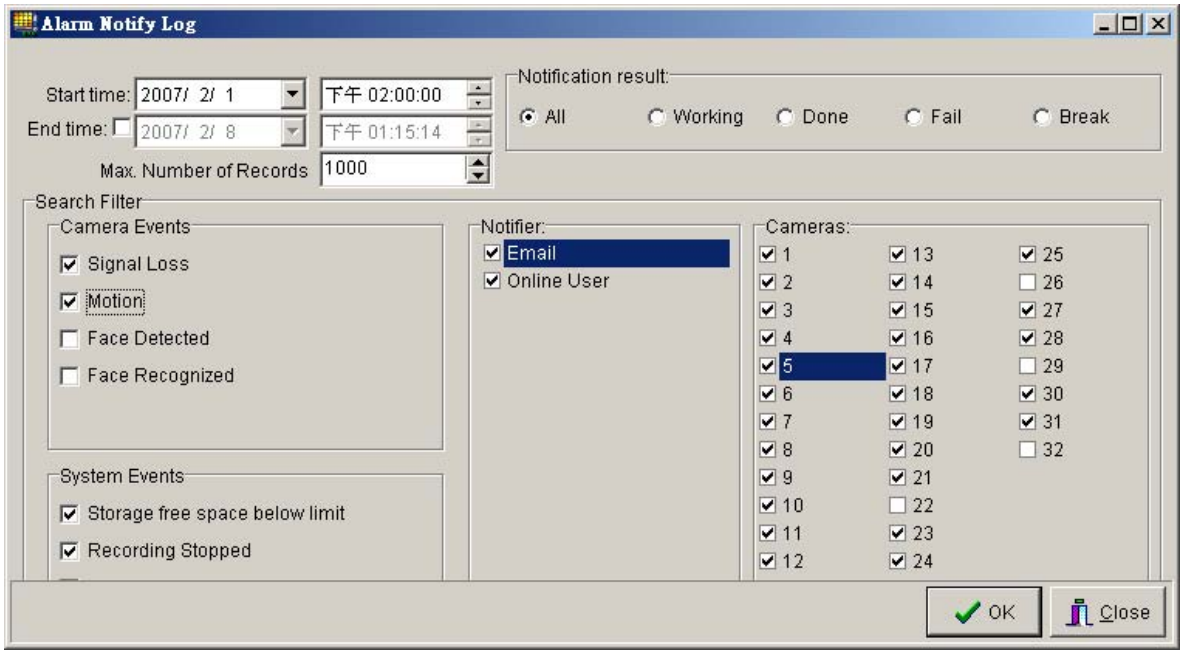
2. When you have your times selected click on "**Start Backup**" button to begin the backup procedure.

3. You will see a **blue progression bar** start showing here. This indicates that the data is being backed up. "Backup Finished" message box will inform you that Backup is completed.

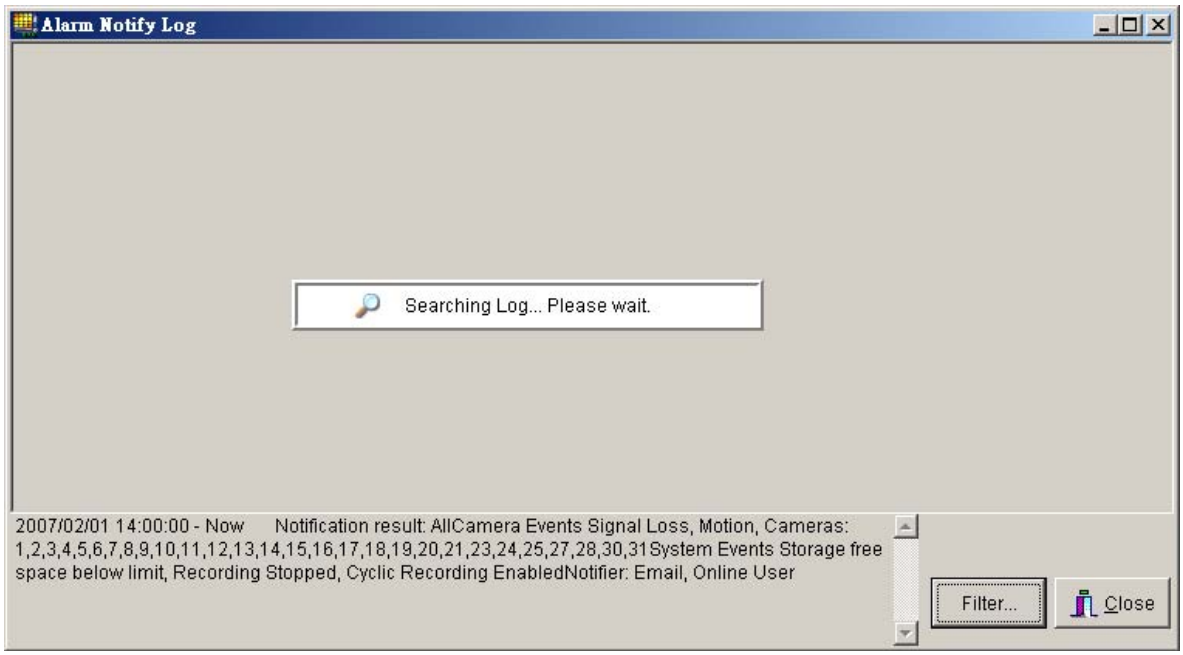
4. "**Backup Finished**" message box will inform you that backup is completed.

11. LOG SEARCH

Click "LOG" button on the DVR main panel to enter the log search function.



There are many filter options on the dialog. Select the filters and assign the time range you are interested in, and then click OK to begin searching.


Alarm Notify Log
Searching Log... Please wait.
2007/02/01 14:00:00 - Now Notification result: AllCamera Events Signal Loss, Motion, Cameras: 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,23,24,25,27,28,30,31System Events Storage free space below limit, Recording Stopped, Cyclic Recording EnabledNotifier: Email, Online User
Filter...
Close

The search results will be listed finally. You can check them item by item. Or double-click any item for viewing the corresponding video if the recorded video is just in the system storage.

12. DVR CLIENT APPLICATION

12.1 Main Display Screen

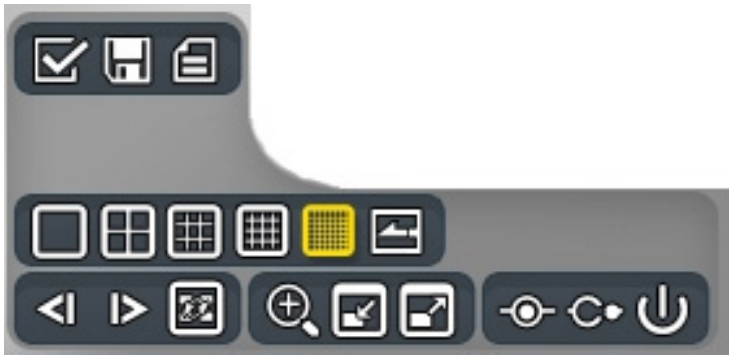
Once starting the ISAFE DVR client, it will automatically display the main screen for user's operation as shown below.

The figure below shows the live video of the initial multiplexed view.

Initial screen configuration

12.2 The Function Keys

ISAFE DVR client possesses many useful features. This section will briefly introduce the usage of these functions.



Setting

Download Mananger

Event Memo

One Camera View

Four Cameras View

Nine Cameras View

Sixteen Cameras View

Thirty-two Cameras View

Electronic Map

Previous Screen

Next Screen

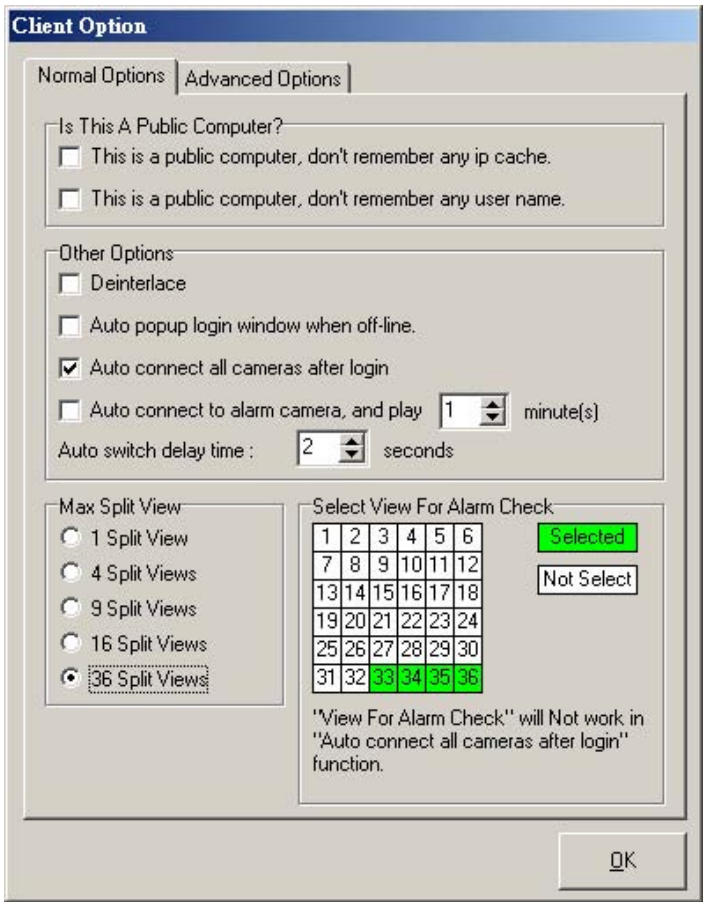
Auto Sequence	
Zoom In/Zoom Out	
Full Screen	
Shrink to System Tray	
Login and Connect	
Disconnect	
Exit the DVR Client	

12.3 The Status of DVR Client Application

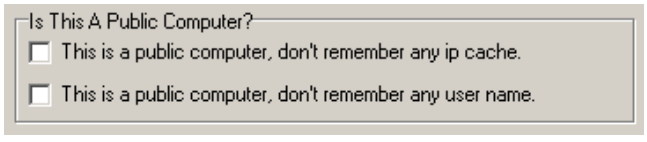
The Connection Status	

12.4 Setup

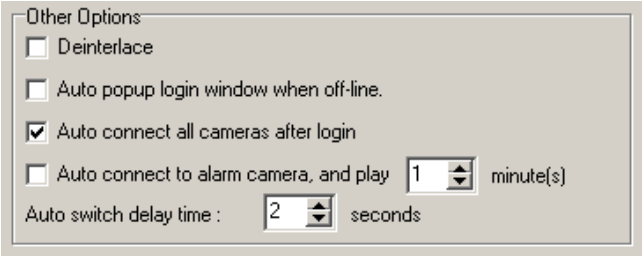
The setup menu is divided into two pages, including the normal options and the advanced options.


Client Option
Normal Options
Advanced Options
Is This A Public Computer?
This is a public computer, don't remember any ip cache.
This is a public computer, don't remember any user name.
Other Options
Deinterlace
Auto popup login window when off-line.
Auto connect all cameras after login
Auto connect to alarm camera, and play
1
minute(s)
Auto switch delay time :
2
seconds
Max Split View
1 Split View
4 Split Views
9 Split Views
16 Split Views
36 Split Views
Select View For Alarm Check
1 2 3 4 5 6
7 8 9 10 11 12
13 14 15 16 17 18
19 20 21 22 23 24
25 26 27 28 29 30
31 32 33 34 35 36
Selected
Not Select
"View For Alarm Check" will Not work in "Auto connect all cameras after login" function.
OK

You may click the options in the "public computer" frame. The IP address and the user name can be selected to be recorded in the client or not.

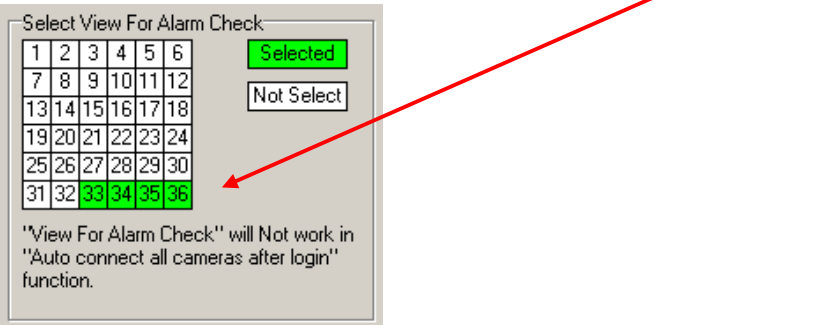

Is This A Public Computer?
This is a public computer, don't remember any ip cache.
This is a public computer, don't remember any user name.

In the "other options", you can choose to enable or disable video de-interlace function, automatically popup login window in off-line status, connect and show all cameras after login, automatically connect alarm camera for a specific period, and setup the time period for auto sequence mode.



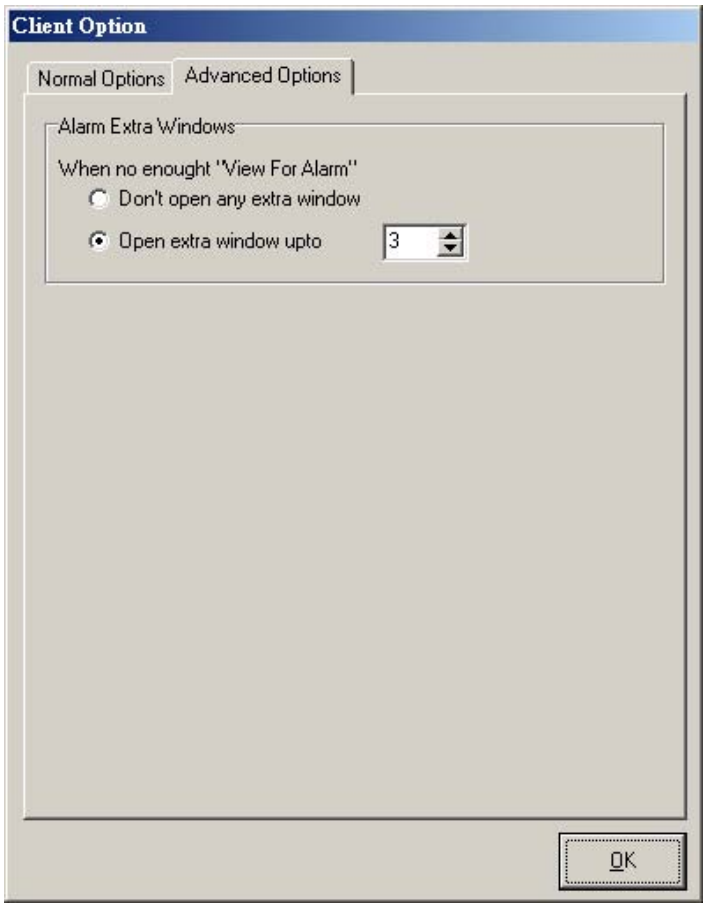
The split-screen views contain one, four, nine, sixteen, and thirty six split windows.

The selected screens are used for showing the video of the alarm cameras. The green color represents the screens you selected.


Select View For Alarm Check
1 2 3 4 5 6
7 8 9 10 11 12
13 14 15 16 17 18
19 20 21 22 23 24
25 26 27 28 29 30
31 32 33 34 35 36
Selected
Not Select
"View For Alarm Check" will Not work in "Auto connect all cameras after login" function.

12.5 Advanced Options

When the selected alarm screens are not enough for display, the extra windows will be automatically popup. You can setup the maximum number of the extra windows by yourself.



12.6 Alarm

When the events occurred on the remote DVR, the alarm screens will automatically show the video to notify the users.

If you set the 31st screen is the alarm one, the specific screen will show the video. The 31st camera icon is marked then.

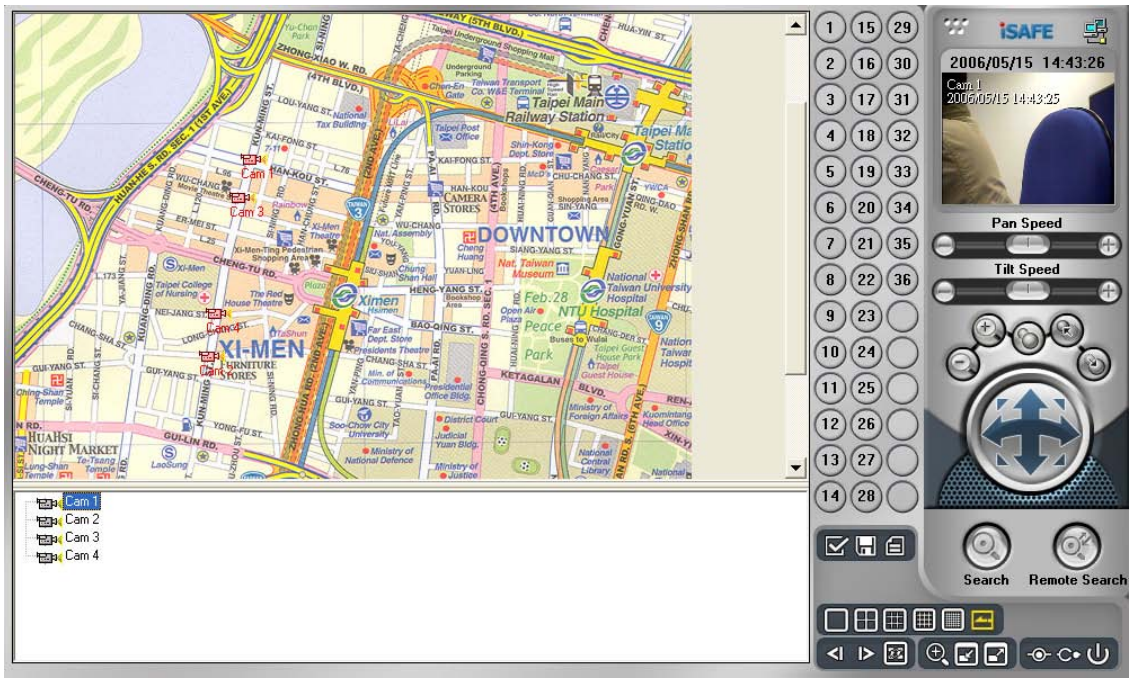
If you right-click the alarm screen, the following options are shown.

You can enable the following functions: full screen, previous page, next page, split-screen view mode, zoom in/out, or close it.

12.7 Electronic Map

Startup the E-MAP function, you will see some camera icons on the map.

If you click the camera icon 1, you can see the live video of the camera 1.



13. WEB-BASED CLIENT

The DVR supports web-based connection from the remote side. You can browse and control the DVR via HTTP protocol. The web browser must support Microsoft ActiveX technology. The built-in browser of Microsoft Windows XP/2000, Internet Explorer (IE) is recommended for use and it gets the best performance.

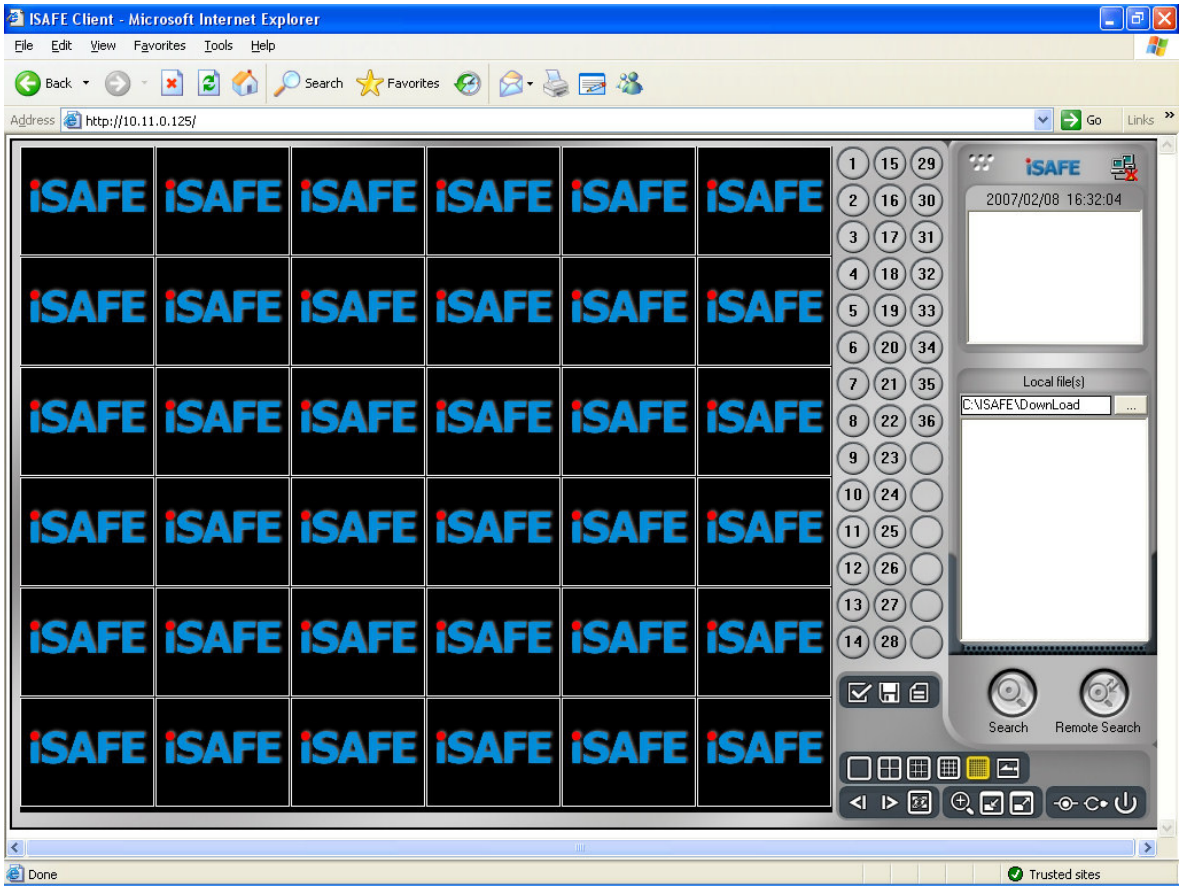
13.1 Web Server

The web server at the DVR side should be enabled before Internet Explorer can make HTTP connection. On this issue please refer to Section 7.11 for more details.

13.2 HTTP Connection

Open your web browser Internet Explorer and input the DVR URL. According to HTTP standard if the port number is not set to 80, the port number should be inserted into the URL.

It spends minutes for the connection first time. The ActiveX component will be automatically transferred into the client system. After successful transmission and execution the client screen will show up and look like the below figure.



Then the following operation steps are the same as those of the DVR client application. Please refer to Chapter 12 for more details.

For successful connection, users should pay more attentions to the settings of the firewall and the anti-virus program in both DVR and client sides. Contact your MIS for consultation if required.